SERVICE MANUAL

REVISION 0 MAR. 1988

Canon

FY8-1377-000

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CANON NP-1215 REV.0 MAR. 1988 PRINTED IN JAPAN

I. FEATURES

1. Originals and copy papers up to A3, and fixed copyboard
- Compact design with the reduction feature of A3 to A4.
- Fixed copyboard which facilitates making copies from thick originals such as books.

2. 50 to 200% wide range zoom
- Zoom copies from 50 to 200% in increments of 1%.
- Automatic supply of correct size copy paper when using the optional DF/ADF device.

3. Space-saving front loading system in replenishing copy papers
- Employment of front-loading system for ease in replenishing copy papers.

4. High quality image with extra-fine particle-size mono-component toners
- For ever superior image quality, extra-fine particle-size (in comparison with previous Canon toners) toner has been employed in association with mono-component "jumping" toner development system.

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II. SPECIFICATIONS

Type

Copier	Desktop
Copyboard	Fixed
Light source	Tungsten-halogen lamp (300 W)
Lens	Lens
Photosensitive material	OPC

Method

Copying	Indirect electrostatic method
Charging	Corona
Exposure	Slit (moving light source)
Copy density adjustment	Automatic or manual
Developing	Dry
Paper pick-up	
Automatic	Dedicated cassette
Manual	Manual feed
Transfer	Corona
Separation	Tangential Curvature separation
Cleaning	Blade
Fixing	Heated roller (900W)
Type of original	Sheets, books, 3-dimensional objects (up to 2 kg)
Maximum document size	A3 (11" × 17")

Function

	Reproduction ratio		
	100V	115V	220/240V
DIRECT	1:1 (±0.5%)	1:1 (±0.5%)	1:1 (±0.5%)
REDUCTION I	1:0.500	1:0.647	1:0.500
REDUCTION II	1:0.707	1:0.730	1:0.707
REDUCTION III	1:0.815	1:0.785	—
REDUCTION IV	1:0.866	—	—
ENLARGEMENT I	1:1.414	1:1.214	1:1.414
ENLARGEMENT II	1:2.000	1:1.294	1:2.000
STEPLESS	1:0.500 ~ 2.000	1:0.500 ~ 2.000	1:0.500 ~ 2.000

WAIT time	90 seconds (20°C)
First copy	10 seconds (A4)
Continuous copying	99 copies
Copy size	Max: A3; (11" × 17") Min: A6 (Post Card)
Kind of copy paper	Ordinary paper 64 to 80g/m², tracing paper (SM1, *GNT-80), colored paper
Cassette feed	
Manual feed	Ordinary paper 64 to 128g/m², tracing paper (SM1, *GNT-80), colored paper, OHP film, postcards, labels
Two-sided copies	Ordinary paper 64 to 80g/m²
Manual feed	Ordinary paper 64 to 128g/m², postcards, colored paper
Overlay copies	Ordinary paper 64 to 80g/m²
Manual feed	Ordinary paper 64 to 128g/m², postcards, colored paper
Cassette specifications Claw	Provided
General	Depth 27mm (1.0") (equivalent to approx. 250 sheets of 80g/m² paper)
Universal	Not provided
Tray capacity	Approx. 100 sheets (A4 size, 80g/m²)

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Function

Non-image width (1st side)	
Leading edge	2.0±1.0mm (0.08"±0.03") max
Left and right	2.5±1.5mm (0.1"±0.03") max
AUTO CLEAR	Possible (standard 2 minutes)
AUTO SHUT-OFF	None
Options	DF/ADF, CT unit, Sorter, Control card unit
Operating environment	
Temperature range	7.5 ~ 32.5°C
Humidity range	10 ~ 85%
Atmospheric pressure range	0.6 to 1 atmospheres
Power source	Copier No.
115V 60Hz	CMY xxxxx
220V 50Hz	DMY xxxxx
240V 50Hz	EMY xxxxx
240V 50Hz	FMY xxxxx
220V 50Hz	DMZ xxxxx
Power consumption	
Max	1.5kw max
During STANDBY	
During continuous copying	
Noise	
During copying	55dB max (at 1m from copier)
During STANDBY	40dB max (at 1m from copier)
Ozone (average for 8 hours)	0.1ppm max
Dimensions	
Width	610mm (24")
Depth	574mm (22")
Height	344mm (13")
Weight	47kg
Storing consumables	
Copy paper	Store copy paper in its wrapping and protect it from humidity
Toner	Store toner at a temperature and humidity of no more than 40° and 85%, and away from direct sunlight
Developing unit	Store the developing in a storage box or in the pedestal of the copier at a temperature and humidity of no more than 30°C and 85%, and away from direct sunlight

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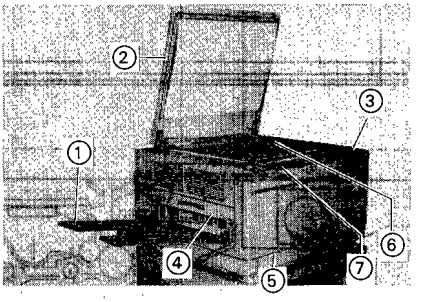
Reproduction ratio		Size	Cassette	Number of copies per minute
DIRECT		A3 (297 × 420 mm) (11″ × 16″)	A3	9
		A4 (210 × 297 mm) (8.3″ × 11.7″)	A4	15
		B4 (257 × 364 mm) (10.1″ × 14.3″)	B4	10
		B5 (182 × 257 mm) (7.2″ × 10.1″)	B5	15
		LTR (216 × 279 mm) (8.5″ × 11″)	LTR	15
		STMT (139.5 × 216 mm) (5.4″ × 8.5″)	STMT	16
		LGL (216 × 356 mm) (8.5″ × 14″)	LGL	10
		11″ × 17″ (297 × 432 mm) (11″ × 17″)	11″ × 17	9
REDUCTION	I	50%	—	—
	II	A3 → A4	A4R	10
		B4 → B5	B5R	14
	III	B4 → A4	A4R	9
	IV	A3 → B4	B4	10
		A4 → B5	B5	15
ENLARGEMENT	I	A4 → A3	A3	9
		B5 → B4	B4	10
		LTR → 11″ × 17″	11″ × 17″	9
		LGL → 11″ × 17″	11″ × 17″	9
	IV	200%	—	—

The above specifications are subject to change with improvement or redesign of the copier.

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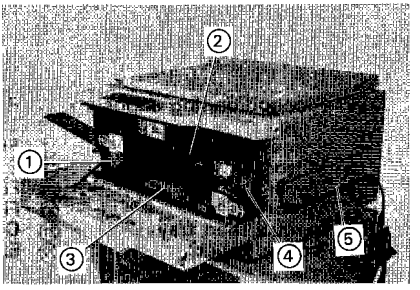
III. NAMES OF PARTS

A. External View



① Copy delivery tray
② Copyboard cover
③ Power switch
④ Copy delivery cover
⑤ Cassette
⑥ Copyboard glass
⑦ Control panel

Figure 1-1

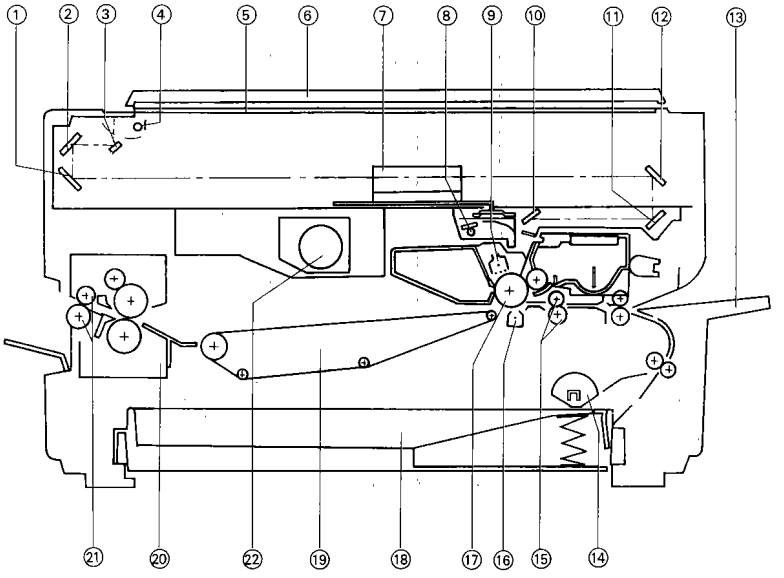


① Fixing roller knob
② Cartridge
③ Feeder release lever
④ Developing unit release lever
⑤ Manual feed tray

Figure 1-2

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B. Cross-sectional View



① Mirror 3
② Mirror 2
③ Mirror 1
④ Scanning lamp
⑤ Copyboard glass
⑥ Copyboard cover
⑦ Lens
⑧ Preconditioning exposure lamp
⑨ Primary corona unit
⑩ Mirror 6
⑪ Mirror 5
⑫ Mirror 4
⑬ Manual feed tray
⑭ Pick-up roller
⑮ Registration rollers
⑯ Transfer corona unit
⑰ Photosensitive drum
⑱ Cassette
⑲ Feeder
⑳ Fixing unit
㉑ Copy delivery roller
㉒ Exhaust fan

Figure 1-3

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IV. OPERATION

A. CONTROL PANEL

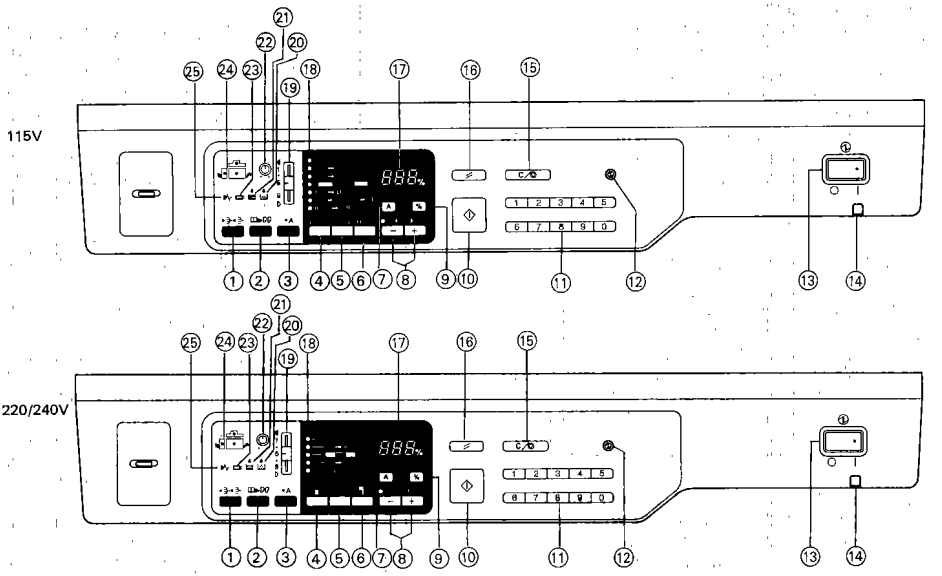


Figure 1-4

(1) SORT/GROUP key
This key is used to select the SORT, GROUP, or NON-SORT mode.
When the indicator is not lit, the copier is in the NON-SORT mode.
SORT indication
GROUP indication

Note:
"SORT" gives a true "collate" function;
"GROUP" gives a true "sort" function.

(2) TWO-PAGE SEPARATION key
This key is used to select the TWO-PAGE SEPARATION mode.
(3) AE key (automatic density adjustment select key)
(4) FIXED REDUCTION RATIO keys
(5) DIRECT key
(6) FIXED ENLARGEMENT RATIO keys
(7) AUTO REPRODUCTION RATIO SELECT key
This key is used to enter the AUTO REPRODUCTION RATIO SELECT mode. It can be used when a DF or ADF (Document Feeder/Automatic Document Feeder) is installed on the copier.
(8) ZOOM key
This key is used to select any reproduction ratio between 50 and 200% (in 1% steps).
(9) % key
This key is used to cause the COPY NUMBER indicator to show the reproduction ratio that has been selected. Two seconds after it is pressed, the indication will go OFF.
(10) COPY START key
- Copying cannot take place when the key is lighting red.
- Copying can take place when the key is glowing green.

(11) Number keys
(12) PREHEAT key
(13) Power switch
(14) POWER indicator
ON when the POWER switch is ON.
(15) CLEAR/STOP key
(16) STANDARD MODE key
This key is used to return the copier to the STANDARD mode.
Standard mode: COPY NUMBER indicator "1"
DIRECT
AE
(17) COPY NUMBER indicator
- Shows the number of copies to be made (decremented with each copy).
- Indicates the reproduction ratio (%) when the % key is pressed.

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(18) FIXED REPRODUCTION RATIO indicator
(19) COPY DENSITY cursor
(20) TONER OUT indicator
(21) PAPER OUT indicator
(22) COPY DENSITY RECALIBRATION knob
This knob is used to adjust the copy density system when copies are too dark or too faint for a given cursor setting.
(Turning it clockwise will cause the density to become fainter.)
(23) Control card checking indicator
(24) Paper feed position indicator
(25) JAM indicator

B. Basic Copying Operation

1) Set the power switch to ON (I).
(1) If the temperature of the fixing roller is too low for copying, the indicator of the COPY START key will glow red.
(2) When the temperature of the fixing roller becomes high enough for copying, the indicator will glow green.
(3) The normal waiting time at room temperature (20°C) is about 70 seconds.
2) Raise the copyboard cover, place an original on the copyboard with the side to be copied facing downward, and align it with the size indication.
3) Select the desired reproduction ratio by pressing a FIXED REPRODUCTION RATIO SELECT (DIRECT, REDUCTION, or ENLARGEMENT) or ZOOM key.
4) To adjust the copy density manually, the A key indicator should be OFF; press the key once if it is ON. Set the COPY DENSITY cursor to suit the original.
5) Check the size of paper in the cassette.
(1) If the cassette does not have the desired size of paper, remove it and install a cassette with the desired size.
6) Set the required number of copies (1 to 99) using the number keys and confirm that the correct number appears on the COPY NUMBER indicator.
(1) If an error was made in inputting the number of copies, press the CLEAR/STOP key and reset the number of copies.
7) Press the COPY START key.
(1) To stop a continuous copying operation, press the CLEAR/STOP key. The copier will complete the copy in progress, then stop.
The COPY NUMBER indicator will display the initially set copy quantity.
(2) It is possible to switch from automatic exposure control to manual density adjustment at any time from the start of copying to the completion of the final copy. However, it is not possible to switch in the other direction from manual density adjustment to automatic.

Example:
If the copy is too dark or too faint using AE, cancel AE and vary the copy density with the COPY DENSITY cursor.

(3) If the PAPER OUT indicator goes ON during copying, the copier will stop. Refill the cassette and press the COPY START key. The remaining number of copies will be made automatically.
(4) If the copier has a DF, place a document (original) on the document tray. The document will be fed automatically and copying will start.
(5) If no other operation is performed, the copier will return to the STANDARD mode approximately 2 minutes after it completes a copy or after the last key operation.

C. MANUAL FEED PICK-UP OPERATION

1) Place an original on the copyboard.
2) Set the desired reproduction ratio.
3) Select manual or AE density control.
4) Feed one sheet of copy paper into the copier along the guides of the manual feed tray.
(1) When the copier senses the paper, copying will start automatically.
(2) When performing continuous manual feed copying, keep the sheets at least 50 mm separate from each other.

Note:
Manual feed copying is possible when the PAPER OUT indicator is ON and the COPY START key is glowing red.

D. TWO-SIDED COPYING

Copy one side of a 2-sided original. Invert the original so that the same edge faces the front. Invert the copy in the same way (front edge facing front ward) and feed it into the copier.
(1) Use dry, uncurled paper.
(2) Use paper in the weight range 60 128g/m².
(3) When making two-sided copies, only one image can be made on each side of the copy paper.
(4) Overlay and two-sided copies cannot be made on the same sheet of copy paper.

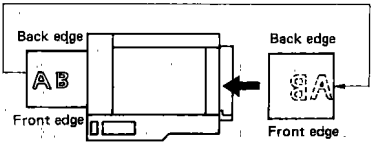


Figure 1-5

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E. OVERLAY COPY OPERATION

By changing the developing unit, a 2-color copy can be made on the same side of the copy paper.

(1) Use paper in the range of 60 to 128g/m².
(2) When making an overlay copy a maximum of two images can be made on one side of the copy paper.
(3) Overlay and two-sided copies cannot be made on the same sheet of copy paper.

F. REPLACING THE CT UNIT

1) Open the front door.
2) Swing the developing unit release lever counterclockwise.
3) Pull the developing unit forward.
4) Grasp the handle of the developing unit, and gently raise it.

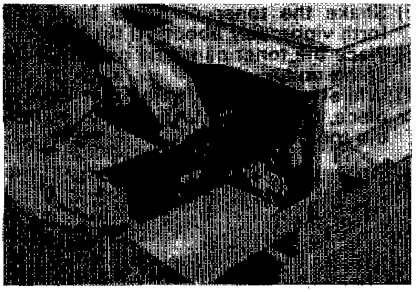


Figure 1-6

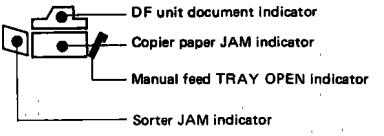
6) Place the CT unit gently on the developing unit guide rails and push it into the copier.
7) Swing the developing unit release lever clockwise.
8) Close the front door.

Note:
1. Do not tilt or handle the developing unit or the CT unit roughly.
2. Do not place the developing unit or the CT unit on the floor. Be sure to place them in their storage box or in the pedestal of the copier.

V. WARNING INDICATOR AND REQUIRED ACTION

A. JAM INDICATOR

If an area of this indicator flashes while copying is taking place, it is likely that the paper has jammed at the position represented by the part that is flashing. Check and take action as follows.



When clearing a paper jam which ahs occurred in an option unit (sorter or DF), refer to the Service Manual for the option unit.

1. DF unit document JAM indicator
2. Copier paper JAM indicator
3. Manual feed TRAY OPEN indicator
4. Sorter JAM indicator

If paper jams inside the copier, check the paper pick-up area, separation feeder area, fixing/copy delivery area, and cartridge area, and remove all jammed paper.

1) Open the front door.
2) Remove the copies from the copy tray.
3) Operate the release and open the copy delivery unit.
4) Check if there is copy paper jammed in the fixing unit. If there is paper jammed in it, turn the knob of the fixing rollers clockwise to remove the jammed paper.

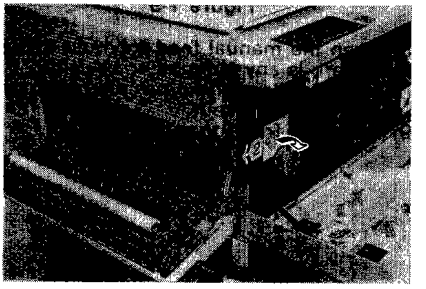


Figure 1-7

5) Close the copy delivery unit.
6) Check if there is paper jammed in the separation/feeder area. If there is, swing the feeder release lever counterclockwise to open the feeder, then remove the jammed paper. Be careful not to tear it.

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Note:
When removing jammed paper from the separation area be very careful not to touch the photosensitive drum.

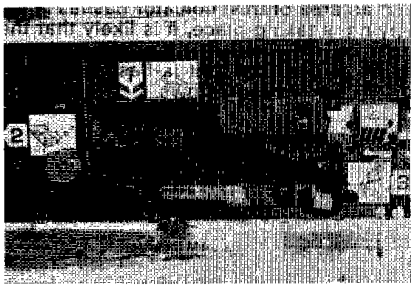


Figure 1-8

7) Open the manual feed tray, and check if there is any jammed copy paper. If there is any jammed copy paper, remove it.

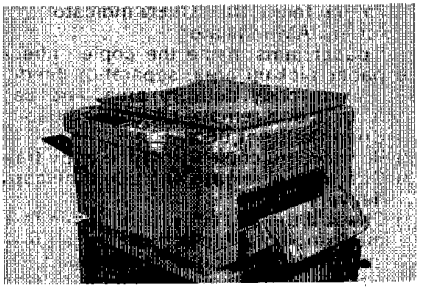


Figure 1-9

8) Open the manual feed tray and check if there is any jammed copy paper. If any copy paper is protruding from the cassette, remove it.
9) Close the front door.

B. PAPER OUT indicator

This indicator lights if there is no cassette in the cassette holder or if there is no paper in the cassette.
1) Remove the cassette.
2) Place copy paper into the cassette.
3) Put the cassette into the copier.

C. TONER OUT INDICATOR

This indicator flashes when the amount of toner in the black developing unit has become low.
1. Black developing unit
1) Open the front door.
2) Turn the developing unit release lever counterclockwise.
3) Pull the developing unit forward as far as possible.
4) Open the top cover of the developing unit.
5) Shake the toner cartridge back and forth vigorously about 10 times.
6) Place the toner cartridge on the developing unit.
7) While holding the toner cartridge in place, remove the seal slowly to allow the toner to flow out.

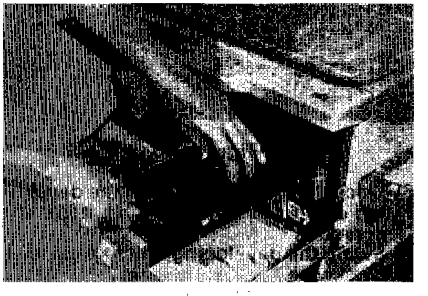


Figure 1-10

8) Strike the top of the toner cartridge to remove any toner remaining in the cartridge.
9) Carefully remove the toner cartridge.
10) Close the top cover of the developing unit.
11) Put the developing unit back into the copier.
12) Swing the developing unit release lever clockwise.
13) Close the front door.

2. CT Unit (color developing unit)
If copy images become faint, the color toner has probably run out. In this case, replace the CT unit. The copy image can sometimes be temporarily restored by placing the CT unit in its storage box and agitating it.

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Note:
The CT unit is a discardable type. When the color toner has been used up, toner is not added to the CT unit; rather, the entire unit is replaced.

D. CONTROL CARD INDICATOR

The control card indicator operates on a copier with a control card unit. It flashes in the following cases.

(1) When there is no control card in the control card unit.
(2) When there is a control card in the control card unit but the indication on the control card unit is "P" or "EE"

VI. DAILY INSPECTION TO BE PERFORMED BY THE CUSTOMER

Carefully instruct the customer to be sure to clean the following parts of the copier once a week.

1) Primary corona unit
   Push and pull the wire cleaner to clean the corona wires.
2) Copyboard glass
   Clean the copyboard glass with a damp cloth, then wipe it dry.
3) Copyboard cover
   Clean the copyboard cover with a mild detergent solution, then wipe it dry.
4) Transfer corona
   Remove the transfer corona unit from the copier, then slide the knob (wire cleaner) at the bottom of the transfer corona unit back and forth to clean the corona wires.

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I. IMAGE FORMATION PROCESS

A. OUTLINE

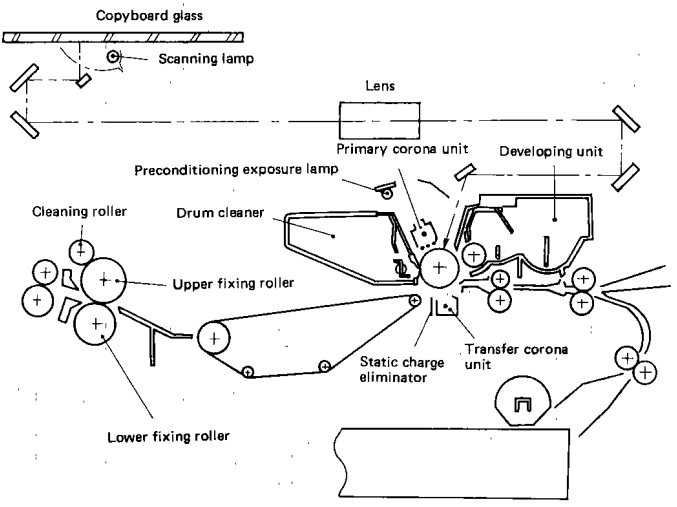


Figure 2-1

This copier consists of the units shown in Figure 2-1.

The image forming process is divided into the eight steps shown below.

Step 1: Preconditioning exposure
Step 2: Primary corona (negative DC)
Step 3: Image exposure
Step 4: Developing (positive plus AC)
Step 5: Transfer (negative DC)
Step 6: Separation
Step 7: Fixing
Step 8: Drum cleaning

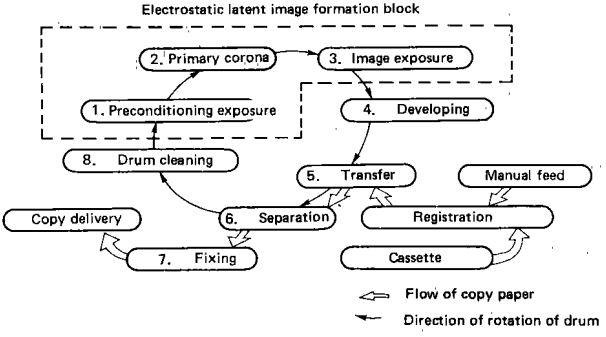


Figure 2-2

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The outer surface of the photosensitive drum is a layer of organic photoconductor (OPC). The base is an aluminum (conductive) cylinder.

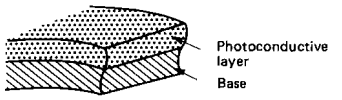


Figure 2-3

2. Electrostatic Latent Image Formation Block

This stage consists of three steps. At the end of the stage, the drum has a pattern of negative electrical charges on its surface corresponding to the dark parts of the document image. The light areas of the document image are represented on the drum by an absence of charges.

The pattern of negative charges cannot be seen by eye, hence it is called an electrostatic latent image.

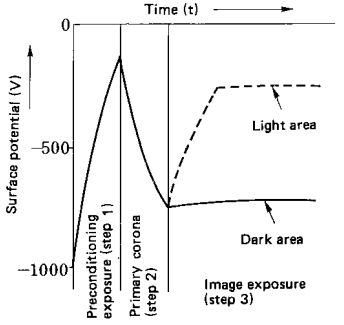


Figure 2-4

3. Step 1 Preconditioning Exposure

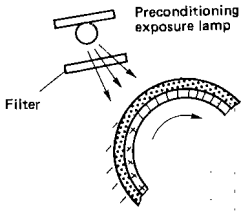


Figure 2-5

Before the primary corona step, light from the preconditioning exposure lamps is shone onto the surface of the drum (preconditioning exposure). This process eliminates residual charges and helps to make the density of the copy even.

4. Step 2 Primary Corona

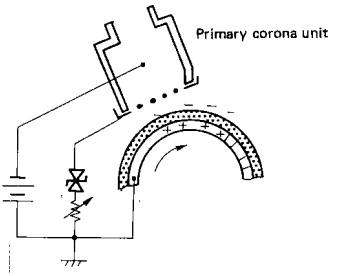


Figure 2-6

The primary corona (negative) applies a uniform layer of negative charges over the drum surface.

The drum surface potential is determined by the grid potential. The grid is connected to ground through a varistor, which holds the drum potential constant at the varistor break-down voltage.

5. Step 3 Scanning Exposure

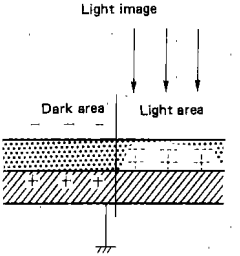


Figure 2-7

Light from the original is projected onto the drum surface. Charges in these light areas on the drum are neutralized by drum photoresistive effects.

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6. Step 4 Developing

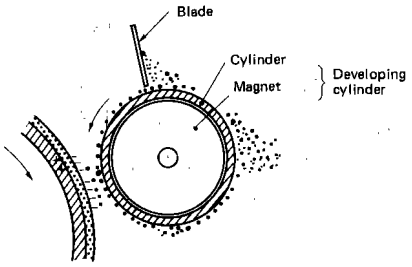


Figure 2-8

As shown in Figure 2-8, the developing unit consists of a developing cylinder (a stationary magnet surrounded by a rotating sleeve) and a blade made of magnetic material. Black toner is a single component type consisting of a fine powder of mixed magnetite and resin binder. The toner has insulating properties and is charged to a positive potential by friction with the rotating cylinder.

Color developer is a two-component type consisting of iron powder (carrier) and toner mixed together in a fixed ratio. The main component of the toner is resin. The toner is charged to a positive potential and the iron powder to a negative potential by friction with the rotating cylinder.

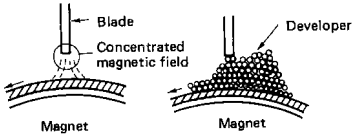


Figure 2-9

A concentrated magnetic field develops between the magnet and the edge of the blade. This field attracts the charged developer.

The developer is held virtually immobile by the magnetic field, forming a curtain along the edge of the blade. As the cylinder rotates, this curtain skims the toner particles on its surface to a thin uniform layer.

An AC bias plus a negative DC bias are applied simultaneously to the developing cylinder so that the waveform of the developing bias has a larger negative excursion than positive.

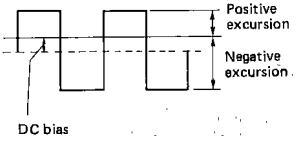


Figure 2-10

During copying toner is attracted to the drum by the charges on the drum surface and by repulsion due to the developing bias (during the positive excursion), transforming the latent electrostatic image into a visible image. Excess toner particles are attracted back to the cylinder from the drum due to the charges on the drum surface and the developing bias (during the negative excursion).

The DC bias affects copy density and fogging: As the DC bias becomes less negative (approaches 0V), the density and degree of fogging both increase.

7. Step 5 Transfer

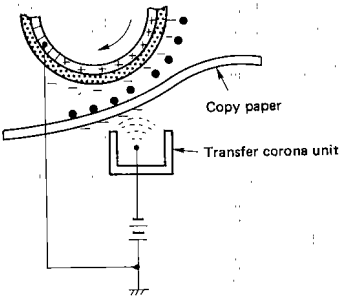


Figure 2-11

In this step, a negative corona is applied to the back of the copy paper, attracting the toner from the surface of the drum to the copy paper.

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8. Step 6 Separation

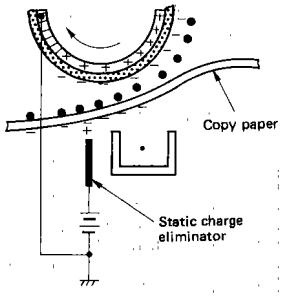


Figure 2-12

The copy paper is separated from the drum by utilizing its stiffness. Thin paper, however, is not stiff, and may wrap around the drum instead of separating from it. To prevent this, a positive voltage is applied to the separation static charge eliminator, weakening the attraction between the drum and the copy paper. This enables the paper to separate easily from the drum.

9. Step 7 Fixing

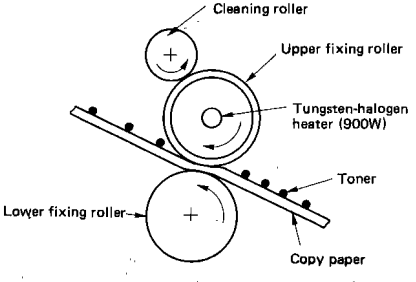


Figure 2-13

In this step, the copy paper is pressed between two heated rollers to make the toner image permanent.

To prevent the copy paper from wrapping around the roller and toner offsetting (adhesion of toner to the roller and transfer of the toner to the next copy), the surface of the upper fixing roller is cleaned with the cleaning roller.

10. Step 8 Drum Cleaning

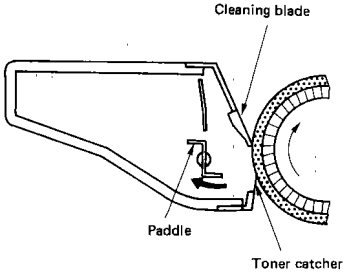


Figure 2-14

This step prepares the drum surface for the next copying operation. Any residual toner scraped off the drum by the cleaning blade and picked up by the toner catcher. It is then pushed to the back by the paddle.

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II. AUXILIARY PROCESSES

1. Blank Exposure

Blank exposure is the process of shining light onto is simply the removal of the drum surface potential in the non-image areas resulting from REDUCTION copying. (See page 3- .) The light for this is produced by the preconditioning lamp and is reflected onto the drum by a reflector.

In the non-image area on the drum between successive sheets of copy paper, the grid bias of the primary corona is reduced to prevent adhesion of toner. For these areas, there is no blank exposure for removal of the surface charges.

2. Ozone Filter

A catalytic ozone filter in the exhaust fan prevents ozone (generated by the coronas) from escaping to the atmosphere by converting the ozone to oxygen.

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I. BASIC OPERATION

A. FUNCTIONS

The copier can be divided into four functional sections: paper pick-up and feed system, exposure system, image formation system, and control system.

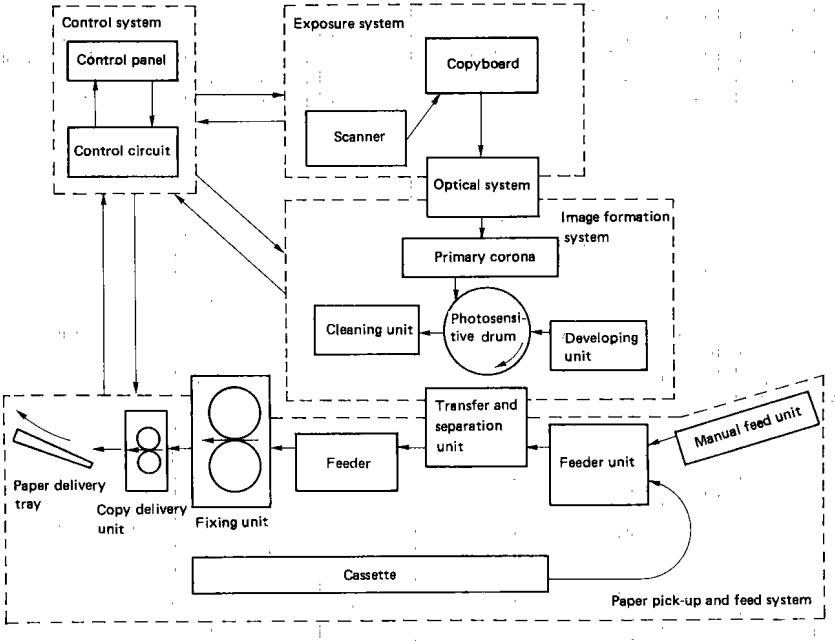


Figure 3-1

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B. OUTLINE OF ELECTRICAL CIRCUITS

The major electrical operations of the copier are controlled by the microprocessor on the DC controller PCB. This microprocessor is programmed to read input signals from the sensors and control panel keys, and to send commands to drive loads (motors, solenoids, lamps, and other devices) in response at the necessary times.

For reference:
The microprocessor used in this copier incorporates an A/D converter enabling it to read analog signals as well as digital signals. Signals marked by (A) in Figure 3-2 are analog signals. Main motor M1 is a synchronous type and runs at a speed determined by the AC line frequency. Scanner drive motor M2 is a stepping type, and runs at a frequency determined by a crystal controlled oscillator in the DC controller. Any variation of the AC line frequency will affect only the main motor; this could result in compressed or elongated images.

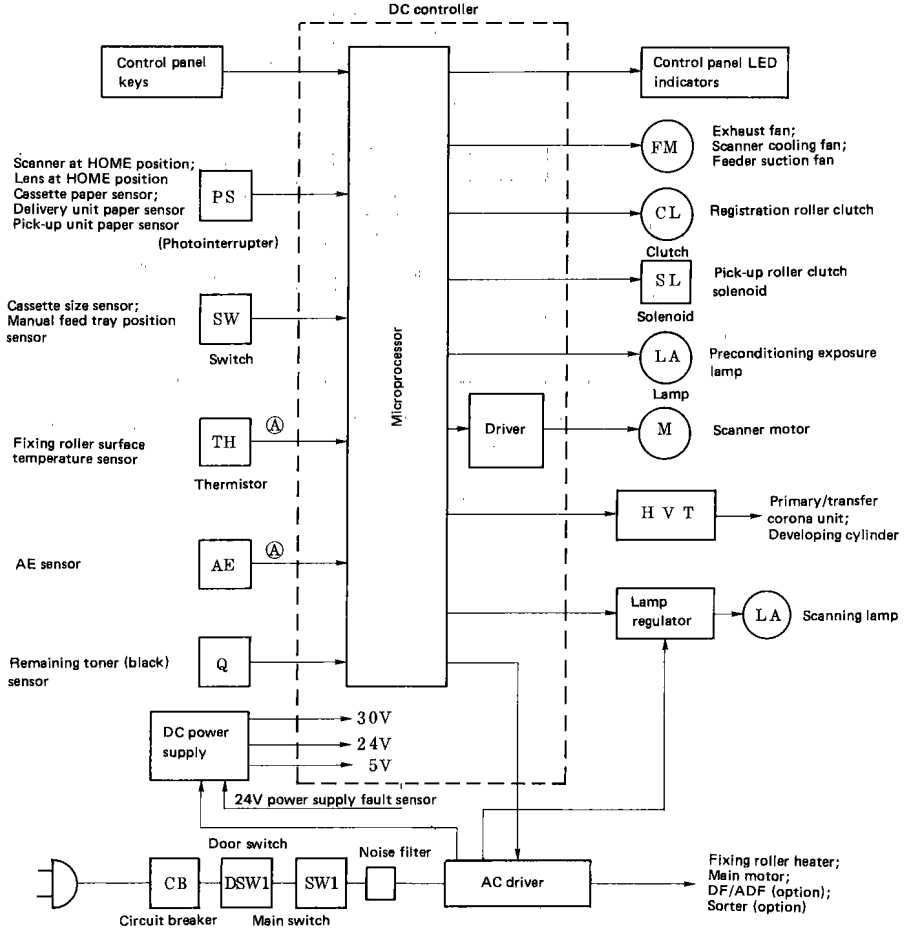


Figure 3-2

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C. DC CONTROLLER INPUTS (1/2)

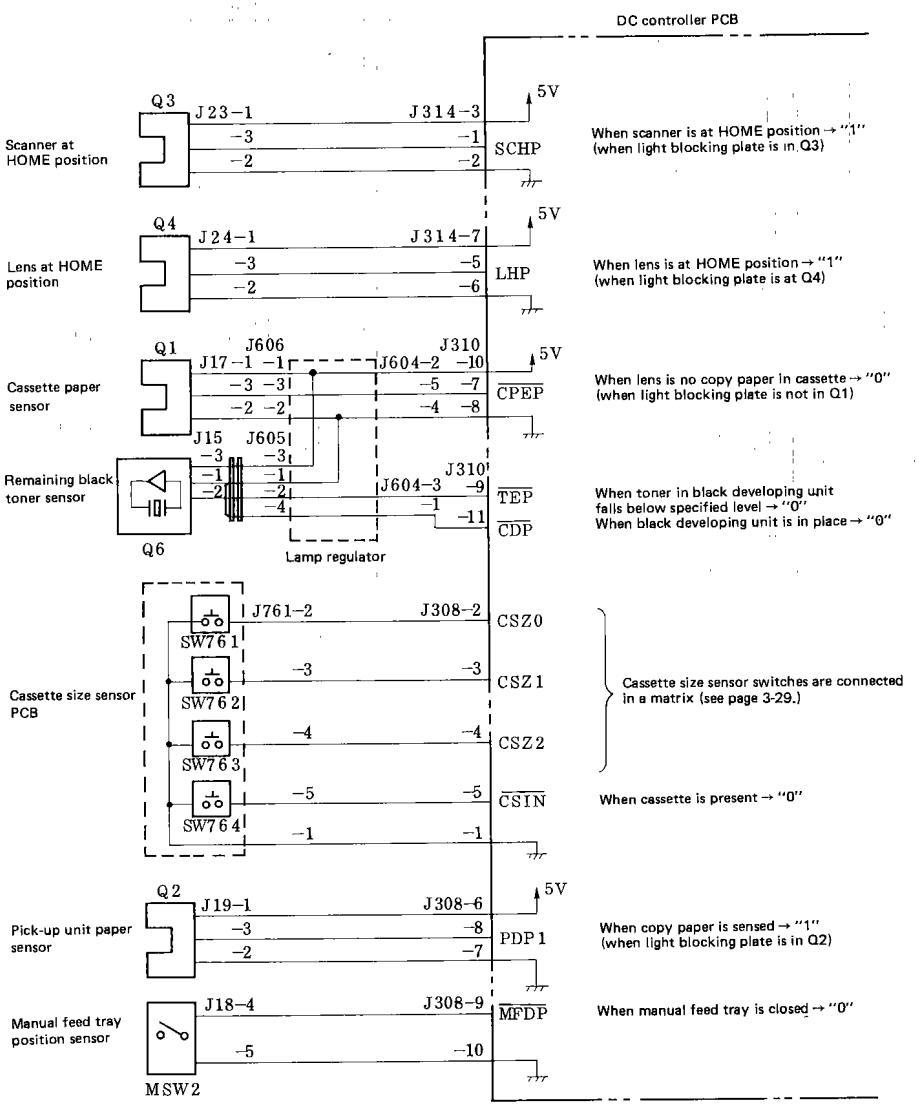


Figure 3-3

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DC CONTROLLER INPUTS (2/2)

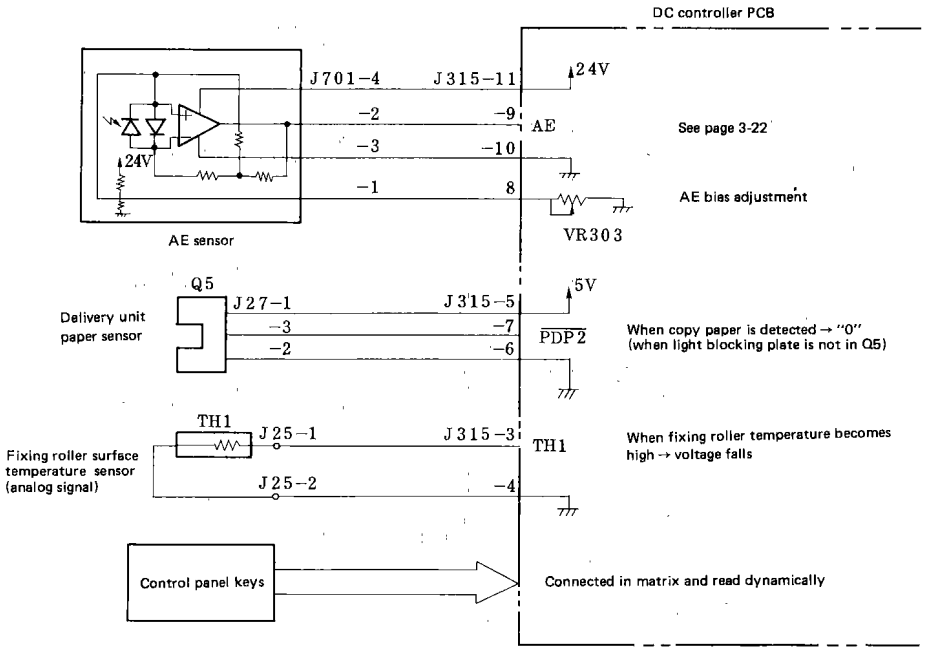


Figure 3-4

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D. DC CONTROLLER OUTPUTS (1/2)

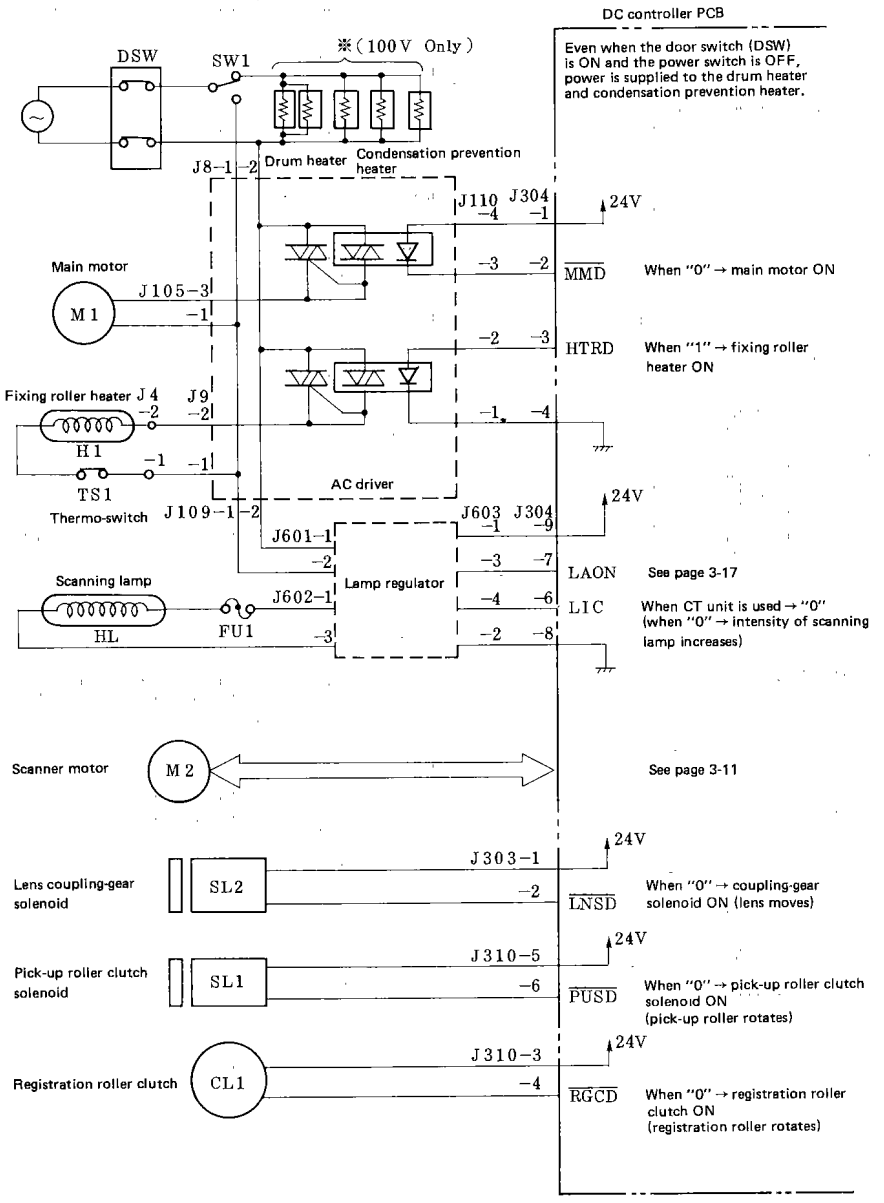


Figure 3-5

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DC CONTROLLER OUTPUT (2/2)

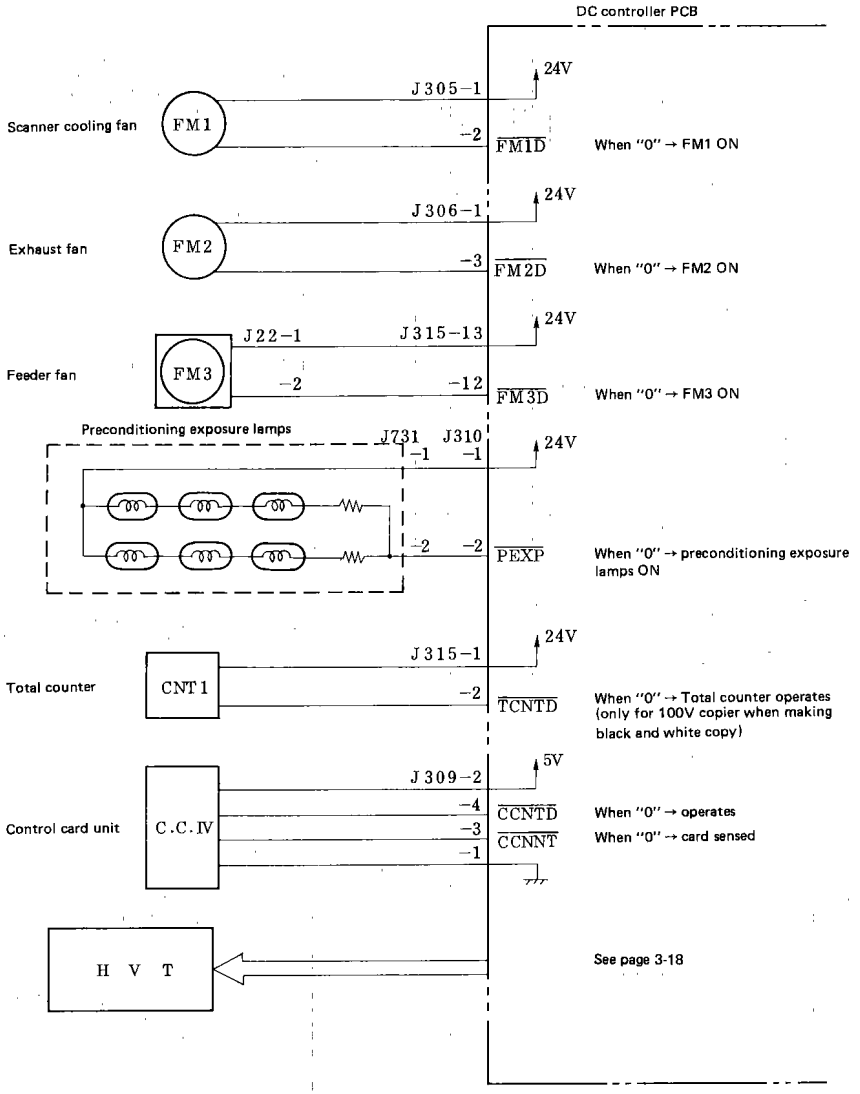


Figure 3-6

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E. BASIC SEQUENCE OF OPERATIONS (DIRECT, CONTINUOUS COPYING (TOWSHETS))

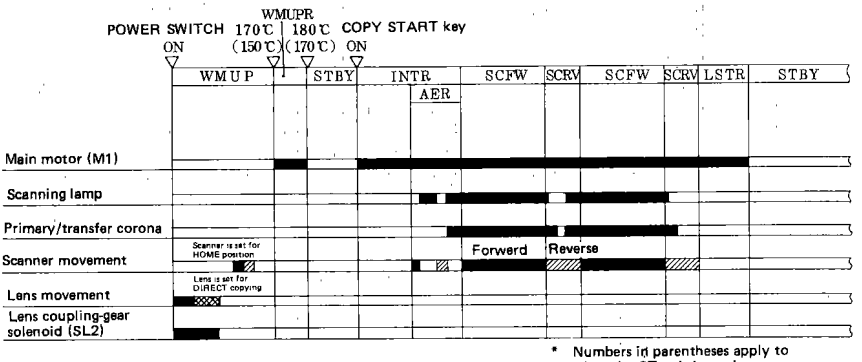


Figure 3-7

Period		Purpose	Remarks
WMUP (Warm-Up)	From switch on until the fixing roller temperature reaches 170°C for the black developer or 150°C for the CT unit. (About 70 seconds at an ambient temperature of 20°C)	Allows time for fixing roller to warm up	Warm-Up time varies with fixing roller temperature at power on. When the start key is lighting green.
WMUPR (Warm-Up rotation)	Until the fixing roller temperature reaches 170 to 180°C for the black developer or 150 to 160°C for the CT unit.	Keeps fixing roller temperature uniform	● After the WMUPR period ends, the READY/WAIT indicator changes from red to green. ● Even when the fixing Zroller has warmed up, it rotates for at least 3 seconds.
INTR (INITIAL rotation)	About 3.2sec(Note), after COPY START key is pressed	Stabilizes drum sensitiuity to prepare for copying	A PAPER FEED signal is generated to feed first sheet of copy paper Note AE mode: About 3.2 seconds Non-AE mode: About 2.2 seconds

Table 3-1 (a)

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Period		Purpose	Remarks
AER (AE rotation)	From when the scanner moves forward about 70 mm from the end of the image unit it returns to its home position.	Move the scanner forward about 70 mm from the end of the image and measure the document density.	In the non-AE mode, the scanner does not move forward or in reverse.
SCFW (Scanner Forward)	When Scanner moving forward ● Travel distance changes with copy paper size and reproduction ratio ● Speed varies with reprodaction ratio	Scanning lamp illuminates original, and retlected optical image is tramitted to photogensitive drum through mirrors and lens arry	● A REGISTRATION signal is generated, and copy paper is fed to transfer area ● A PAPER FEED signal is generated to feed next sheet of copy paper
SCRV (Scanner reverse)	While the scanner is moving in reverse ● The speed of the reverse movement is 2.5 times that of the forward movement in DIRECT mode.	Scanner is moved back to HOME position to prepare for next copy	
LSTR (SAST ratation)	Untill the main motor stop after SCRV for last copy ends.	Ensures full ejection of last copy	
STBY (STANDBY)		Waits until COPY START key is pressed	

Table 3-1 (b)

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II. EXPOSURE SYSTEM

A. CHANGING THE REPRODUCTION RATIO

The reproduction ratio across the drum is varied by changing the position of the lens. It is moved by the lens drive system. The reproduction ratio around the drum is varied by changing the speed of the scanner. Figure 3-8 shows how the position of the lens is varied to change the reproduction ratio across the drum.

The scanner drive system changes the reproduction ratio around the drum by varying the speed at which mirror 1 moved relative to the peripheral speed of the drum. (The scanner is mirror 1 plus the scanning lamp.)

The mirror speed is faster than the drum peripheral speed for REDUCTION and slower for ENLARGEMENT.

Note:
1. The relative position of the mirrors is not changed to vary the reproduction ratio.
2. For DIRECT copying, the speed of the mirror is the same as the peripheral speed of the drum.

B. LENS DRIVE SYSTEM

1. Outline

The lens is moved by the scanner motor (M2). Normally, the coupling gear is in its upper position, and connects the scanner motor to the scanner drive capstan. To move the lens, the coupling gear solenoid (SL2) goes ON, causing the coupling gear to disengage from the scanner capstan gear

The lens is a "floating element" type. In operation, the relative position of lens elements (individual lenses) changes, and the focal length changes as a result, but the changes are to optimize lens sharpness for each reproduction ratio, not to make the lens function as a zoom lens. (The lens should not be dismantled.)

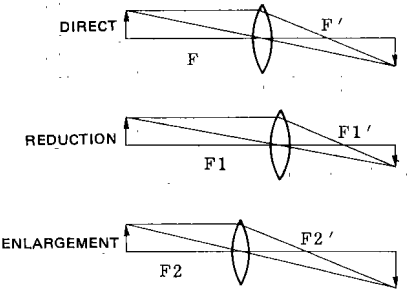


Figure 3-8

and engage with the lens capstan gear. When the scanner motor rotates (CW), the lens will be move to the left (for ENLARGEMENT) by the capstan and cable.

For REDUCTION copying, M2 turns in the opposite direction. The blank exposure shutter also moves, to expose the non-image areas of the drum (at the ends) to light to prevent black areas on copies.

(See page 3-25.)

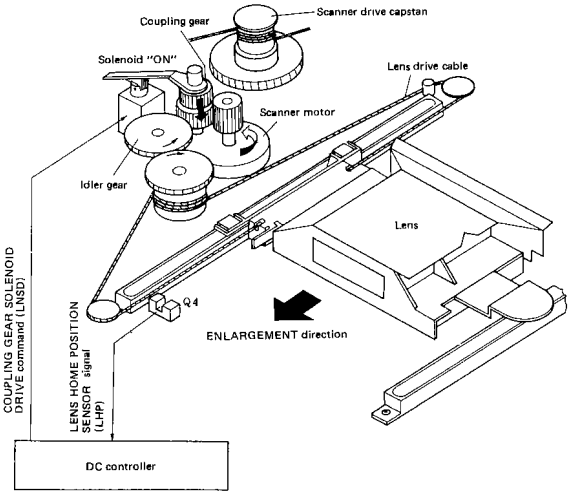


Figure 3-9

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2. Basic Lens Drive System Operation (change of reproduction ratio)

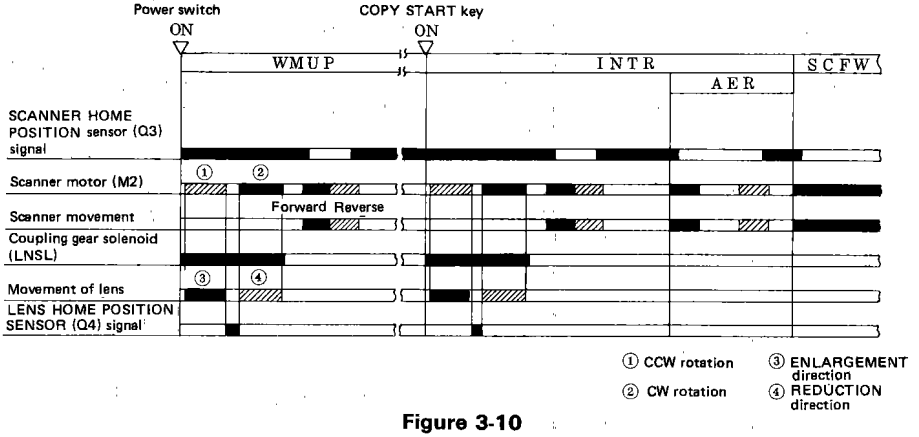


Figure 3-10

If the reproduction ratio is changed, the lens always returns momentarily to the HOME position, then moves to the position corresponding to the set reproduction ratio. This is also the case for DIRECT copying.

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C. SCANNER DRIVE SYSTEM

1. Outline

The scanner is driven by the scanner motor (M2). The direction of rotation of the scanner motor determines whether the scanner moves forward or backward. The forward speed of the scanner motor is continuously variable to produce the required reproduction ratio. The reverse speed is fixed regardless of the reproduction ratio (2.5 times the forward speed for DIRECT copying).

The distance that the scanner moves varies to suit the size of copy paper and the reproduction ratio.

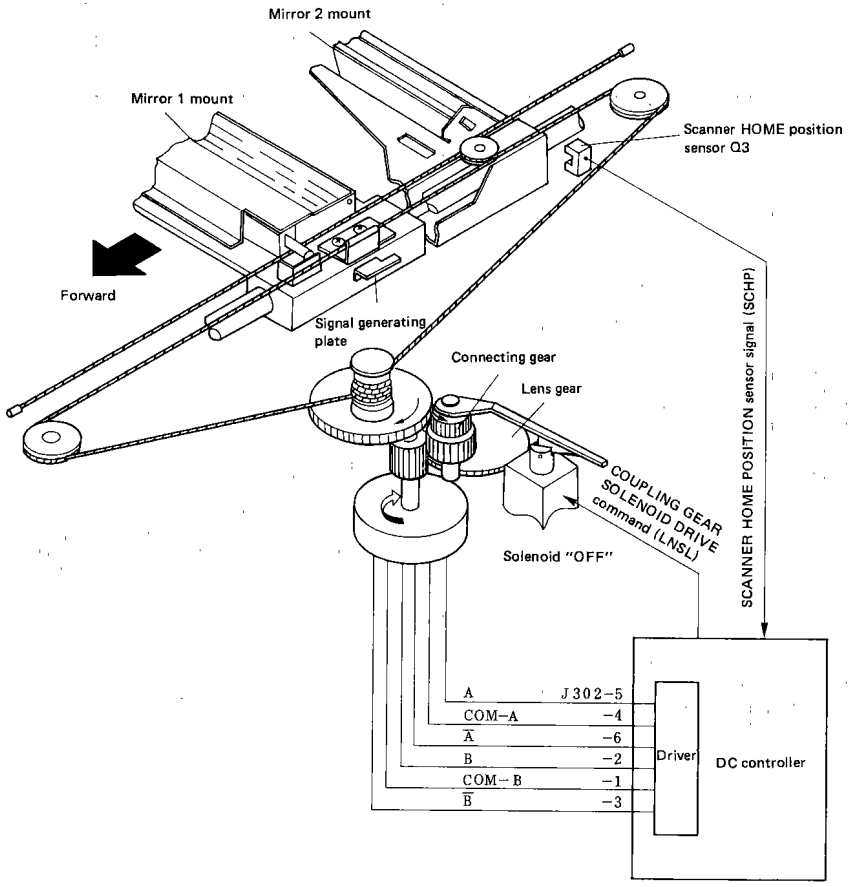


Figure 3-11

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2. Relation Between Scanner Sensor and Signals

Scanner sensor	Signal name	Scanner		Meaning
		Forward	Reverse	
Scanner HOME position sensor (PS 1)	SCHP	↓		* Registration roller clutch ON * Grid bias
			↑	* After 0.1 seconds, scanner stops advancing

Table 3-2

3. Basic Scanner Operation

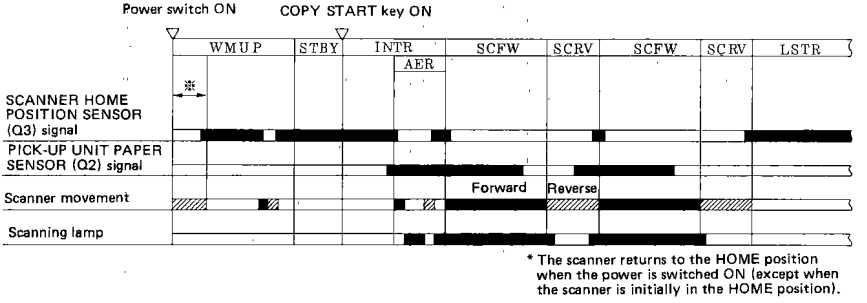


Figure 3-12

* The scanner returns to the HOME position when the power is switched ON (except when the scanner is initially in the HOME position).

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4. Scanner Motor Drive System

Operation

(1) Clockwise rotation

The scanner motor driver outputs pulses as shown in Figure 3-13, and the motor rotates CW. This moves the lens in the direction for REDUCTION, and the scanner moves forward.

For REDUCTION copying, the motor speed increases to move the scanner faster (forward).

(2) Counterclockwise rotation

The scanner motor is driven CCW by pulses of phase relationship opposite to that used to drive it CW. This moves the lens in the direction for ENLARGEMENT, and moves the scanner in reverse.

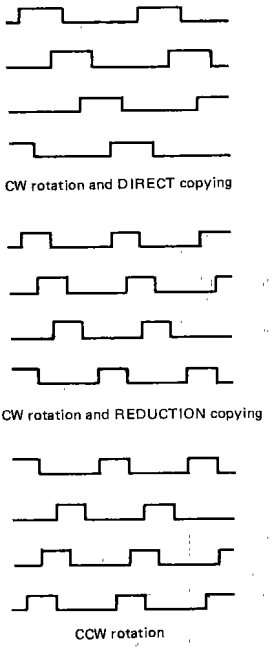


Figure 3-13

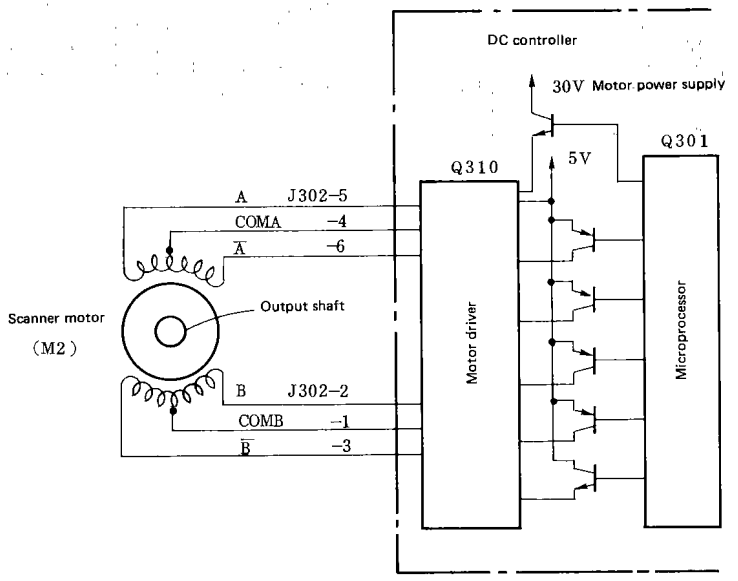
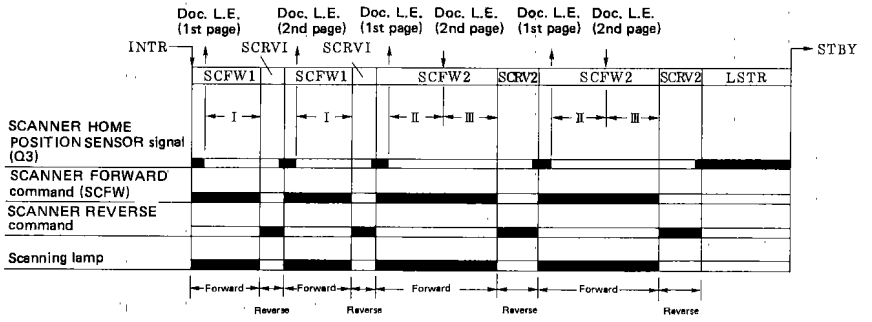


Figure 3-14

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5. Scanner Movement for Two-page Separation Mode (copy number "2")



Timing of operations I, II, and III shown in Figure 3-15 is with reference to the leading edge of the first page of the document (fall of Q3 signal).

I: The distance moved by the scanner form the leading edge of the original is determined by the reproduction ratio and the copy paper size, just as for a normal copy.

II: This is roughly the same as I. If the distance moved forward by the scanner is greater than 210mm (100V, 220V, or 240V copier)/216mm (115V copier), the DC controller will judge that 210mm/216mm is the leading edge of the original. If the distance that the scanner moves forward is less than 210mm/216mm, the point at which the scanner reverses in I will be the leading edge of the second page of the document.

III: Same as I.

For reference:
The distance that the scanner moves from the leading edge of the image (point to which the scanner moves 10mm after the fall of Q3) cannot exceed 432mm. Also, the distance that the scanner moves is limited by the reproduction ratio. For a reproduction ratio of 200%, it cannot move more than 216mm.

Figure 3-15

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III. IMAGE FORMATION SYSTEM

A. OUTLINE

The basic structure of the image formation system is as shown below.

* Scanning lamp control system
* Primary/transfer corona current and grid bias voltage control system
* Controlling developing bias
* Document density measurement system
* Developing unit/Drum cleaner
* Blanking

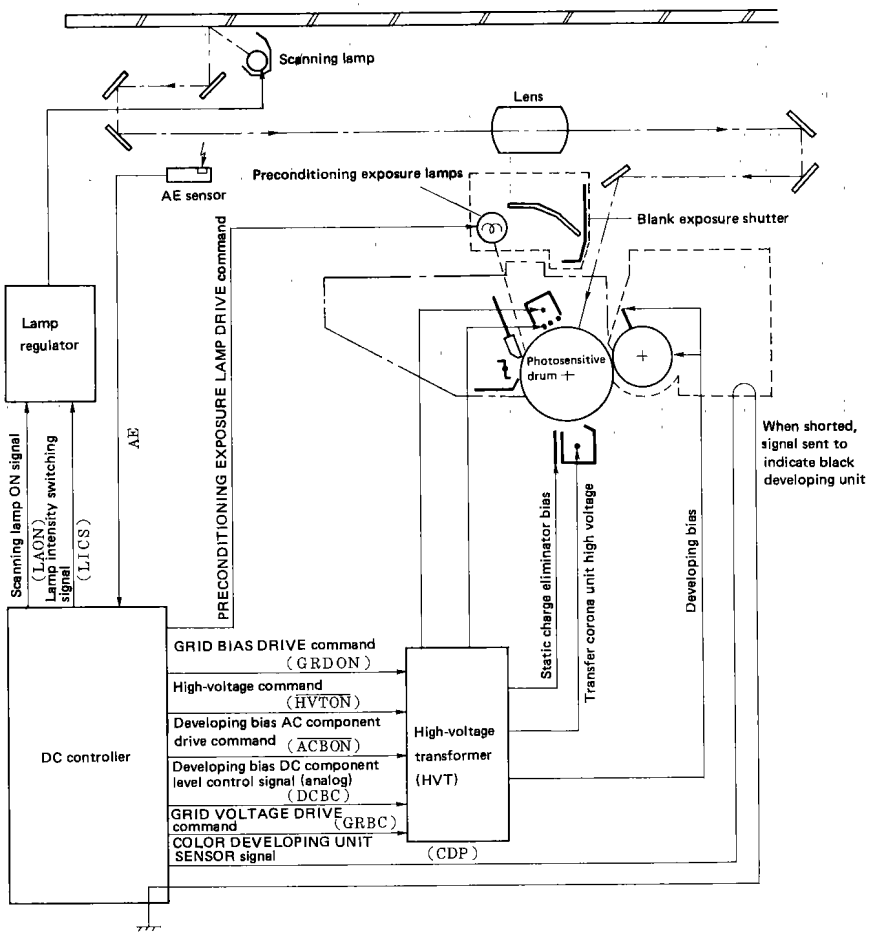

Scanning lamp
Lens
Preconditioning exposure lamps
AE sensor
Blank exposure shutter
Lamp regulator
Photosensitive drum
When shorted, signal sent to indicate black developing unit
Scanning lamp ON signal (LAON)
Lamp intensity switching signal (LICS)
AE
PRECONDITIONING EXPOSURE LAMP DRIVE command
Static charge eliminator bias
Transfer corona unit high voltage
Developing bias
GRID BIAS DRIVE command (GRDON)
High-voltage command (HVTON)
Developing bias AC component drive command (ACBON)
Developing bias DC component level control signal (analog) (DCBC)
GRID VOLTAGE DRIVE command (GRBC)
COLOR DEVELOPING UNIT SENSOR signal (CDP)
DC controller
High-voltage transformer (HVT)

Figure 3-16

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B. BASIC OPERATION OF IMAGE FORMATION SYSTEM (black developing unit, 2 copies)

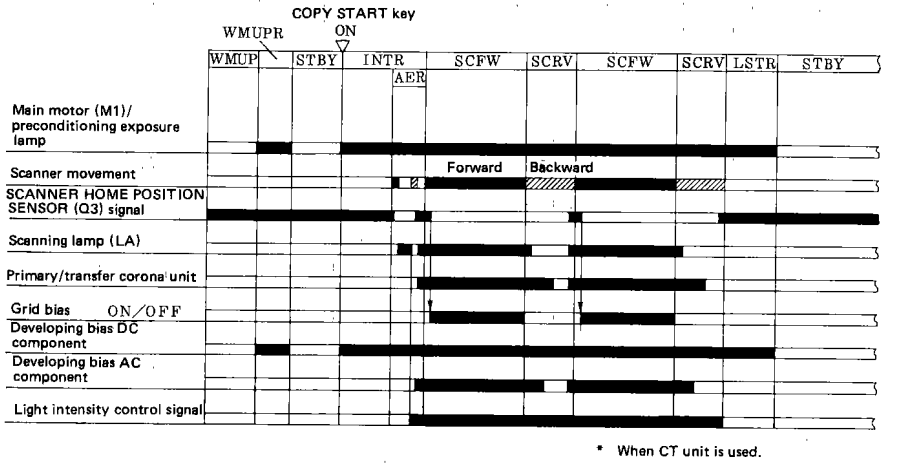


Figure 3-17

When a color developing (CT) unit is used, the AC component of the bias operates when the main motor (M1) is operating.

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C. SCANNING LAMP CONTROL SYSTEM

The scanning lamp is controlled by the DC controller PCB (see Figure 3-18).
The main functions of the DC controller PCB are shown below.

* Switching scanning lamp ON/OFF
* Switching scanning lamp intensity

a. Switching the scanning lamp ON/OFF

(1) To switch scanning lamp ON

The output from the microprocessor turns Q360 ON. (The output from Q305 will be "L", so Q321 will be OFF.)

→The scanning lamp ON signal (LAON) becomes "1".

→The scanning lamp goes ON.

(2) To switch scanning lamp OFF

When Q360 goes ON, LAON becomes "0" regardless of whether Q321 is ON or OFF.

(3) If the scanning lamp remains ON for an abnormally long period

If the scanning lamp remains ON for at least 15 seconds

→C310 charges (voltage at (+) input of Q305) rises to threshold of Q305.

→Q305 output → "1".

→Q321 goes ON.

→LAON becomes "0" regardless of whether Q360 is ON or OFF.

→The scanning lamp goes OFF.

b. Switching scanning lap intensity

The intensity of the scanning lamp is automatically switched to the correct level for a black developing unit or a CT unit.
When a CT unit is used, the DC controller makes the LIGHT INTENSITY signal (LICS) "0", and the lamp drive voltage is raised by about 3.5V over that used when a black developing unit is being used, thus increasing the light intensity.

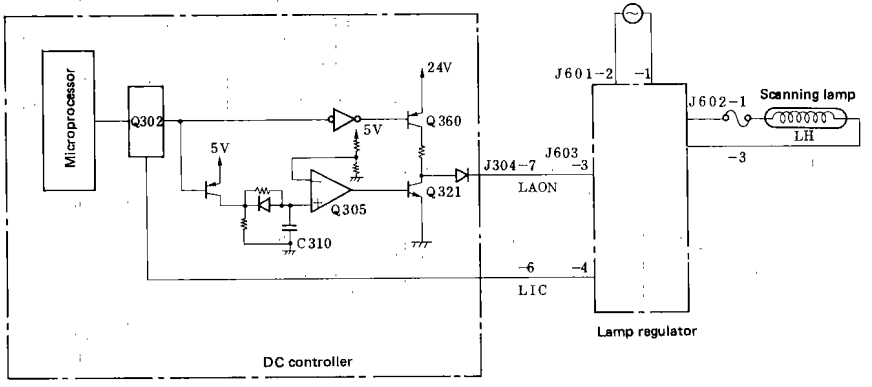


Figure 3-18

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D. PRIMARY/TRANSFER CORONA CURRENT AND GRID BIAS VOLTAGE CONTROL SYSTEM

1. Outline

The circuit shown in Figure 3-19 controls the primary/transfer coronal current and the bias voltage of the grid of the primary corona. Main functions are as follows.

(1) Switching primary/transfer corona current ON/OFF
(2) Maintaining primary/transfer corona current constant
(3) Switching primary corona grid bias voltage
(4) Switching primary corona grid bias ON/OFF

In order to eliminate the influence of changes in atmospheric conditions on the effectiveness of the corona discharge, the current to the primary corona wire is maintained constant.

The primary corona and transfer corona current are switched ON and OFF by the HIGH VOLTAGE ON command (HVTON).

The grid bias voltage is switched by the GRID BIAS CONTROL signal (GRDON).

2. Switching Primary/Transfer Corona Current ON/OFF

(1) When $\overline{\text{HVTON}}$ = 1
- Differential amplifier goes OFF.
  - Variable pulse width oscillator goes OFF.
    - High-voltage transformer goes OFF.

(2) When $\overline{\text{HVTON}}$ = 0
- Differential amplifier goes ON.
  - Variable pulse width oscillator goes ON.
    - High-voltage transformer goes ON.

3. Maintaining Primary/Transfer Corona Current Constant

If the primary corona current is greater than the correct value due to changes in the environment, the level (analog) of the feedback signal to the differential amplifier circuit will increase and the output form the differential amplifier circuit will fall. As a result, the primary/transfer coronal current will fall. Similarly, if the primary corona current is too low, it will be increased.

If the output side of the high-voltage transformer supplying the primary corona unit is ever overloaded, the current will be limited to a certain maximum.

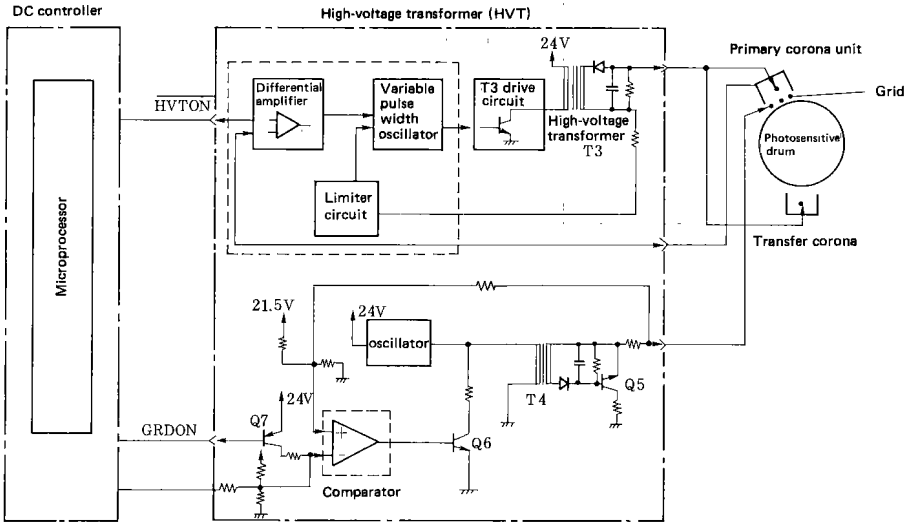


Figure 3-19

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4. Controlling Grid Bias Voltage

(1) During scanning, the DC controller PCB outputs GRDON = "1".
- Q7 goes OFF and the comparator output is "H".
  - Q6 goes ON.
    - Current does not flow into transformer T4 and Q5 goes OFF.
      - Bias is applied to the grid.
        - The surface of the drum is charged.

The voltage applied to the grid is fed back to the comparator which functions to maintain the grid voltage constant.

(2) When scanning is not taking place, the DC controller PCB outputs GRDON = "0".
- Q7 goes ON and comparator circuit output is "L".
  - Q6 goes OFF and current flows into T4.
    - Bias is not applied to the grid.

In the above way, the surface of the drum is not charged, hence toner does not adhere to it (blanking).

E. CONTROLLING DEVELOPING BIAS

1. Outline

The circuit shown in Figure 3-21 controls the developing bias. Its main functions are as follows.

(1) Switching AC component of the developing bias ON/OFF.
(2) Regulating voltage of the DC component of the developing bias.

The copy density can be controlled by varying the voltage of the developing bias to suit the following variables.

(1) Settings of copy density cursor and recalibration dial
(2) AE sensor output
(3) Type of developing unit

When there is a black developing unit in the copier, J605-1 and J605-4 are connected electrically to inform the copier that a black developing unit is in place.

The photosensitive drum gradually deteriorates with use, causing the potential (V_L) of light areas of the drum to increase, so that copy density is not correct for a given setting of the density control cursor. To compensate for this, a COPY DENSITY RECALIBRATION knob, which can be turned to raise the DC bias by exactly the increase in V_L, and thus produce clear copies again.

2. Operation

a. Switching AC component of the developing bias ON/OFF

The square wave generator operates continuously when the copier is switched ON.

(1) When ACBON = 1
- AC bias switch circuit goes ON.
  - Output from the square wave generator is cut off.

So AC bias is not supplied to the developing cylinder.

(2) When $\overline{\text{ACBON}}$ = 0
- The AC bias switch circuit goes OFF.

So the output of the square wave oscillator goes to the T1 drive circuit. This causes the AC high-voltage transformer to generate a 1300VAC AC bias, which is supplied to the developing cylinder.

Also, the output of the AC high-voltage transformer is rectified and supplied to the

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static charge eliminator (approx. 3.2kV).

b. Controlling DC bias

The differential amplifier of Figure 3-21 operates when DCBC is 16V or below. (The range of DCBC (analog) is 6 to 16V, as set by the copy density cursor or the AE system.)

- Differential amplifier goes ON.
  - Variable pulse-width oscillator goes ON.
    - DC high-voltage transformer goes ON.

The DC bias is applied to the developing cylinder.

DCBC	6V~16V
DC component of developing bias	−500V~−0V

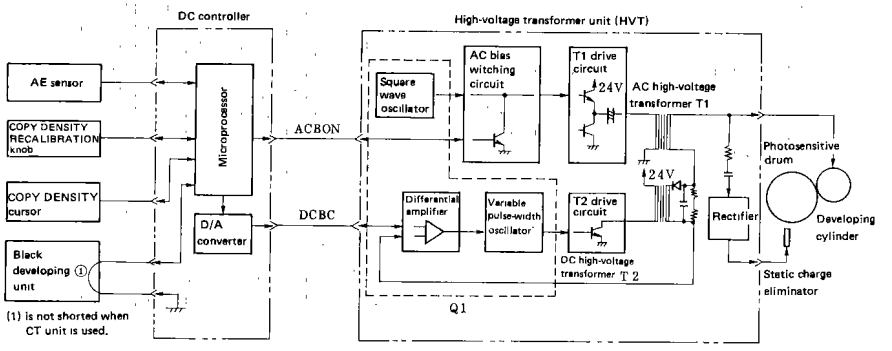


Figure 3-21

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3. Developing Bias Operation

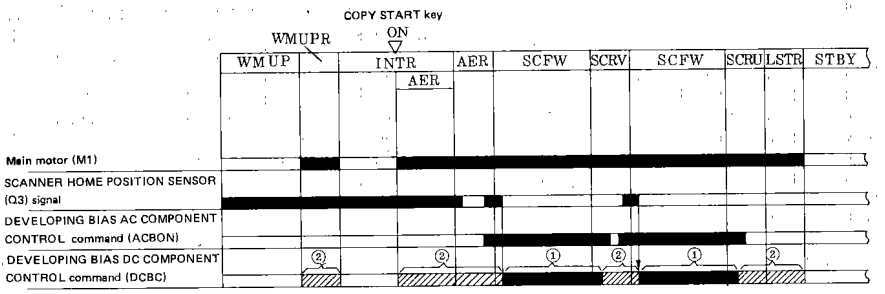


Figure 3-22

(1) The value of the DEVELOPING BIAS DC COMPONENT CONTROL signal and the DC bias are determined by (1) the settings of the COPY DENSITY cursor and recalibration knob, (2) the AE sensor output, and (3) the type of developing unit installed.
(2) The DC bias used at times other than during scanning depends on the type of developing unit installed.
Black developing unit: Approx. – 320 V
CT unit: Approx. – 220 V

Note:
The AC component is added to the developing bias for a CT unit when the main motor is operating.

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F. Document Density Measurement System

1. Outline

There is an automatic density adjustment (AE) system which adjusts the DC component of the developing bias to suit the density of the original. If the density of the original is more or less uniform, the AE function varies the DC component of the developing bias to suit the density of the original, so that copies of the correct density will be made.

2. Operation

The scanner moves forward approximately 70mm past the leading edge of the original and stops momentarily. The scanning lamp goes ON for approximately one second, the image density is read by the AE sensor, and the sensor output is interpreted by the DC controller. The DC controller then adjusts the DC component of the developing bias accordingly.

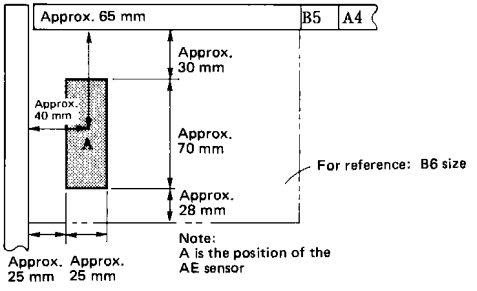


Figure 3-23

3. Reading Output of AE Sensor

The AE sensor consists of a photodiode (Q702) and an operational amplifier (Q701). If the strength of light striking the photodiode is high, the output voltage (AE) of the amplifier will be small. If the amount of light is small, the output voltage will be large.

The DC controller reads the output at a certain time after the zero-cross signal (ZXDP) is received from the DC power supply.

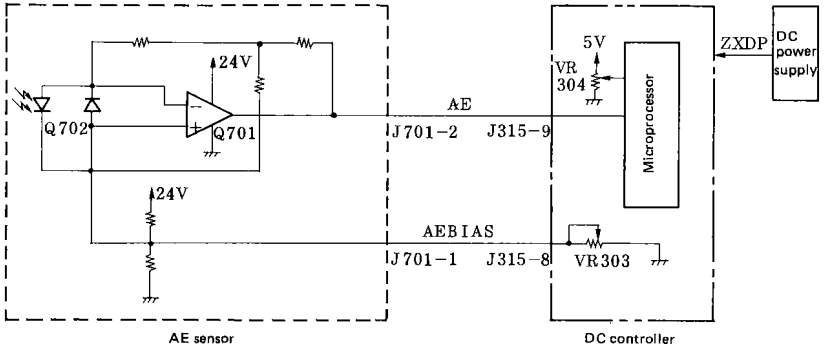


Figure 3-24

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4. Adjustments to AE System

- The AE system must be adjusted in the following cases.

(1) After replacing the AE sensor or DC controller PCB.
(2) After installing a DF/ADF go through step 6). (because this necessitates replacing the left copy board glass retainer).

1) Remove the potentiometer cover at the back of the left cover.
2) Set the power switch ON.
   * Wait until the WAIT period has ended.
3) Place an NB-3 or NA-2 test sheet on the copyboard, and lower the copyboard cover.
4) Press switch SW301 on the DC controller PCB.
   * "0" will appear on the COPY NUMBER indicator on the control panel.
   * If "0" does not appear, press the "0" number key on the control panel so that "0" appears.
5) Press the SORT/GROUP key on the control panel.
   * The scanner will move forward to the AE measuring position, then the scanning lamp will go ON. (Note)
6) Adjust VR303 on the DC controller so that "22" appears on the COPY NUMBER indicator.
7) Press the SORT/GROUP key.
   * The scanning lamp will go OFF, and the scanner will return to the HOME position.
8) Remove the test sheet, place a sheet of newspaper on the copyboard, and lower the copyboard cover.
9) Press the SORT/GROUP key.
   * The copier will perform the same operations as described in step 5).
10) Make a note of the numerical value displayed on the COPY NUMBER indicator.
11) Press the SORT/GROUP key.
   * "0" will appear on the COPY NUMBER indicator.
12) Press the "1" number key.
   * "1" will appear on the COPY NUMBER indicator.
13) Press the SORT/GROUP key.
14) Adjust VR304 on the DC controller PCB so that the number displayed on the COPY NUMBER indicator becomes the value noted in step 10).
15) Press the SORT/GROUP key.
16) Press switch SW301 on the DC controller PCB.

Note:
The scanning lamp will go ON for approximately eight seconds. To turn it ON once again, press the SORT/GROUP key, and after operation has stopped press the SORT /GROUP key once again.

For reference:

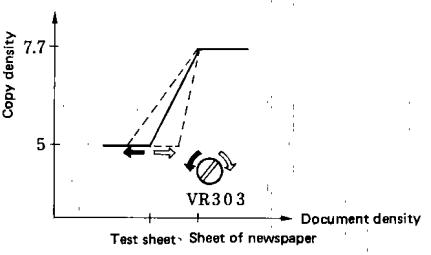


Figure 3-25

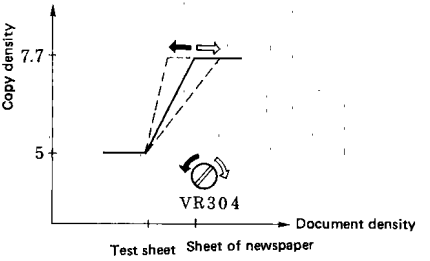


Figure 3-26

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G. DEVELOPING UNIT/DRUM CLEANER

1. Outline

The paddle inside the drum cleaning unit and also the developing cylinder are rotated by the main motor.

The amount of toner in the developing unit is sensed by the toner sensor (Q6). When the amount of toner falls below the required quantity, the TONER OUT indicator on the control panel will flash.

When the toner in the CT unit is used up, the entire CT unit should be replaced.

The toner collected by the cleaning blade is stored in the drum cleaning unit.

The developing unit is pressed against the drum by a cam that presses against the developing unit rail. (The cam is operated by the developing unit release lever.)

2. Remaining toner sensor

The black developing unit has a piezo-electric type sensor (Q6) which senses if the toner remaining in the hopper of the developing unit is above or below the required level.

When the amount of toner in the hopper is sufficient, the sensor output is "1". When it is below the specified level, the output is "0".

The DC controller checks for 5 seconds after copying is completed if the TONER OUT signal is being outputted. If the signal is outputted continuously for 5 seconds, it is regarded as "TONER OUT-First time". If another TONER OUT signal is received in the same way after the next copying operation is completed, it is regarded as "TONER OUT-Second time", and the DC controller makes the TONER OUT indicator flash.

The CT unit for this copier does not have a remaining toner sensor or waste toner sensor.

3. Torque Limiter

There is a torque limiter in the drive train between the main motor and the drum so the drum can stop if it is jammed.

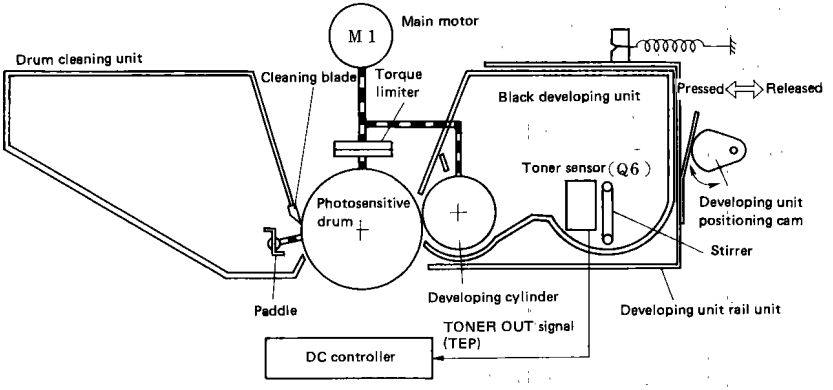


Figure 3-27

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H. BLANKING

1. Outline

The area of the drum between the trailing edge of one copy and the leading edge of the next would normally act as an all black area and attract toner if a preventive measure were not taken. This measure is to switch the primary corona OFF and the primary corona unit grid wire bias ON (There is no blank exposure; see page 3-18.)

The non-image areas on each end of the drum occurring during REDUCTION copying are blanked by reflecting light from the preconditioning exposure lamps onto the ends of the drum by reflectors, thus preventing toner from adhering to the drum in these areas.

2. Blank exposure (REDUCTION copying, non-image area blanking)

For REDUCTION copying, the lens moves to the position corresponding to the required reproduction ratio. The cam underneath the lens causes the blank shutter to slide a distance corresponding to the reproduction ratio, so that the exposure windows open. As a result, the light from the preconditioning exposure lamps shines onto the required areas of the drum via the reflector.

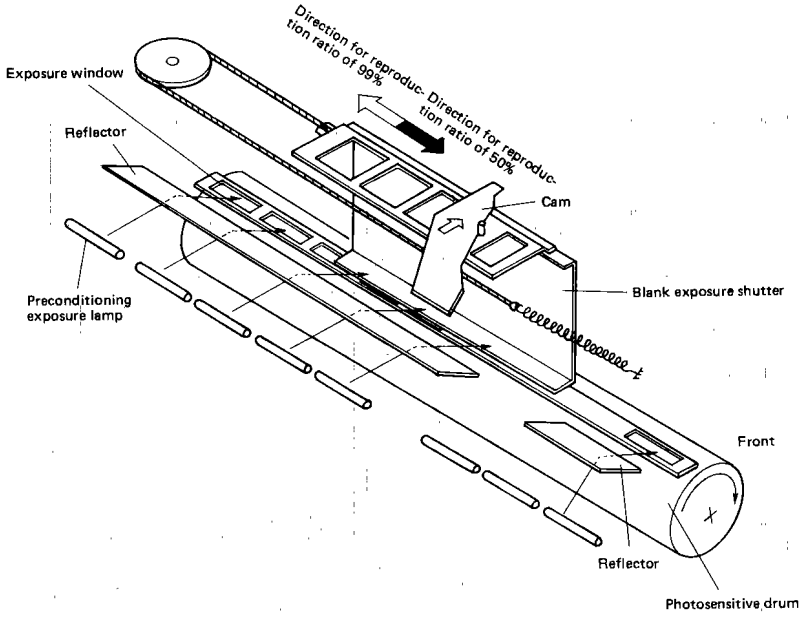


Figure 3-28

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IV. PAPER TRANSPORT SYSTEM

A. PAPER PICK-UP UNIT AND FEEDER

1. Outline

When the pick-up roller clutch solenoid (SL1) engages, main motor M1 turns the roller, feeding a sheet of copy paper to the registration rollers. The number of rotations of the pick-up roller varies with the length of the copy paper. (See Table 3-4)

The copy paper is fed by the registration rollers so that its leading edge is in line with the leading edge of the toner image on the photosensitive drum. It then passes through the transfer, separation, feed, fixing and delivery stages to the copy tray.

The copy paper is sensed by phototransistors (Q2 and Q5). If it does not reach or pass the sensors within the specified period, the DC controller PCB judges that a jam has occurred and causes the PAPER JAM indicator on the control panel to flash.

Phototransistor (Q1) senses whether there is paper in the cassette. If there is not, the CASSETTE PAPER OUT signal (CPEP) becomes "0", causing the PAPER OUT indicator on the control panel to go ON.

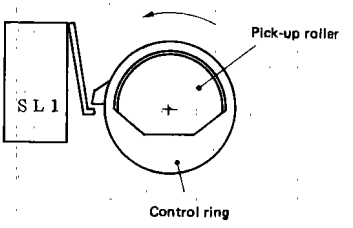


Figure 3-29

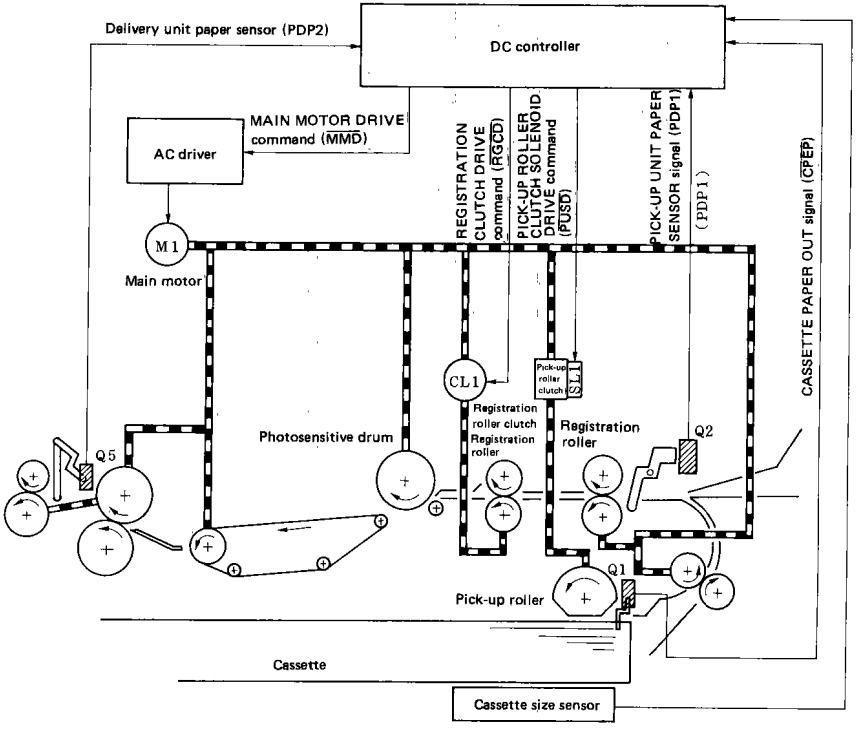


Figure 3-30

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2. Pick-up and Feeder Operation

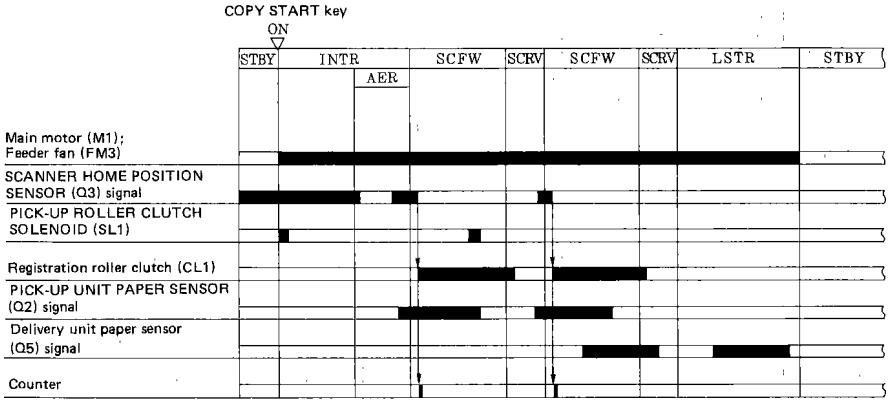


Figure 3-31

The ON period of the pick-up roller clutch solenoid varies with the paper (cassette) size. (See Table 3-4.)

Copy paper (cassette) size	Number of pick-up roller rotations	Pick-up roller clutch solenoid ON period (seconds)
B5/STMT A4/Letter	1	0.4
B4/Leagal A3/Ledger B5R A4R/LetterR I II	2	1.7

Table 3-4

Paper size I: Argentine-LTR, Government-LTR, Korean Legal Paper
Paper size II: Argentine-LGL, Government-LGL, Argentine-LTR-R, Government-LTR-R, Foolscap Folio, Aus Foolscap, Korean Legal-R, OFICIO/Ecuador, OFICIO/Bolivia. OFICIO

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3. Manual Feed Paper Pick-up

If the COPY START key has not been pressed and the paper sensor (Q2) in the paper pick-up unit senses copy paper, the main motor (M1) will rotate, driving the manual pick-up rollers. These rollers feed the sheet of paper into the copier.

Manual feed paper pick-up operation

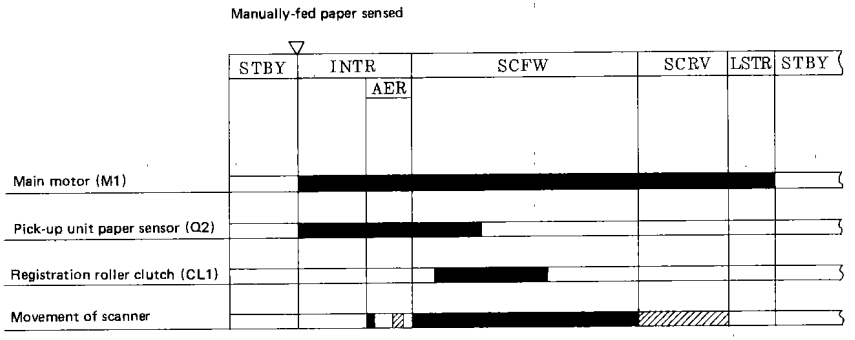
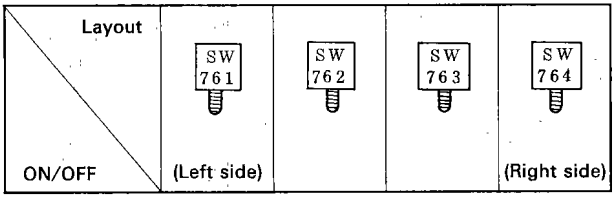


Figure 3-32

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4. Cassette Size Sensor

When a cassette is in the cassette holder, cams on the cassette operate one or more switches that identify the presence and size of the cassette, as shown in Table 3-5.



No.	Cassette	Cassette size sensing PCB.			
		SW761	SW762	SW763	SW764
1	A3/11'×17'	OFF	OFF	OFF	ON
2	A4/Letter	ON	OFF	OFF	ON
3	B4/Legal	OFF	ON	OFF	ON
4	B5/STMT	ON	ON	OFF	ON
5	I	OFF	OFF	ON	ON
6	II	ON	OFF	ON	ON
7	A4R/LetterR	OFF	ON	ON	ON
8	B5R	ON	ON	ON	ON
9	No cassette	OFF	OFF	OFF	OFF

Table 3-5

Paper size I: Argentine-LTR, Government-LTR, Korean Legal Paper
Paper size II: Argentine-LGL, Government-LGL, Argentine-LTR-R, Government-LTR-R, Foolscap Folio, Aus Foolscap, Korean Legal-R, OFICIO/Ecuador, OFICIO/Bolivia. OFICIO

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C. FIXING AND PAPER DELIVERY UNITS

1. Outline

The upper and lower rollers of the fixing assembly are driven by the main motor (M1).

The upper roller is heated by a single heater (H1:900W). When the surface temperature of the roller rises, the resistance of the thermistor (TH) falls, so the voltage of the signal that it produces FIXING ROLLER TEMPERATURE signal; TH1 also falls.

Whether the voltage of TH1 (analog) is above or below a certain level at a given time determines if the microprocessor of the DC controller makes the FIXING ROLLER DRIVE command (HTRD) "1" or "0".

The target temperature of the fixing roller depends on the cassette size and the type of developing unit.

	Black developing unit		CT unit	
	A3, A4 B4, B5 11″×17″ Letter Legal	A4R. B5R Letter-R	A3, A4, B4, B5 11″×17″ Letter Legal	A4R, B5R Letter-R
During copying	190°C	190°C or 180°C (180°C after 2 minutes or after copying)	170°C	170°C or 160°C (160°C after 2 minutes or after copying)
During STANDBY	180°C	180°C	160°C	160°C

Table 3-6

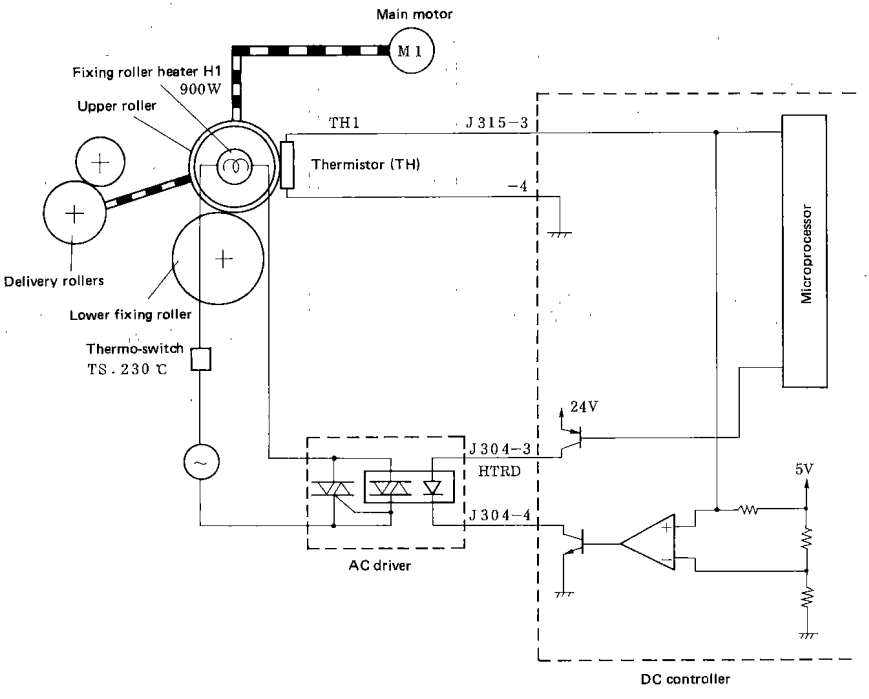


Figure 3-33

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2. Operation of Fixing Unit Temperature Control System (when A3, A4, B4, and B5 cassettes are used)

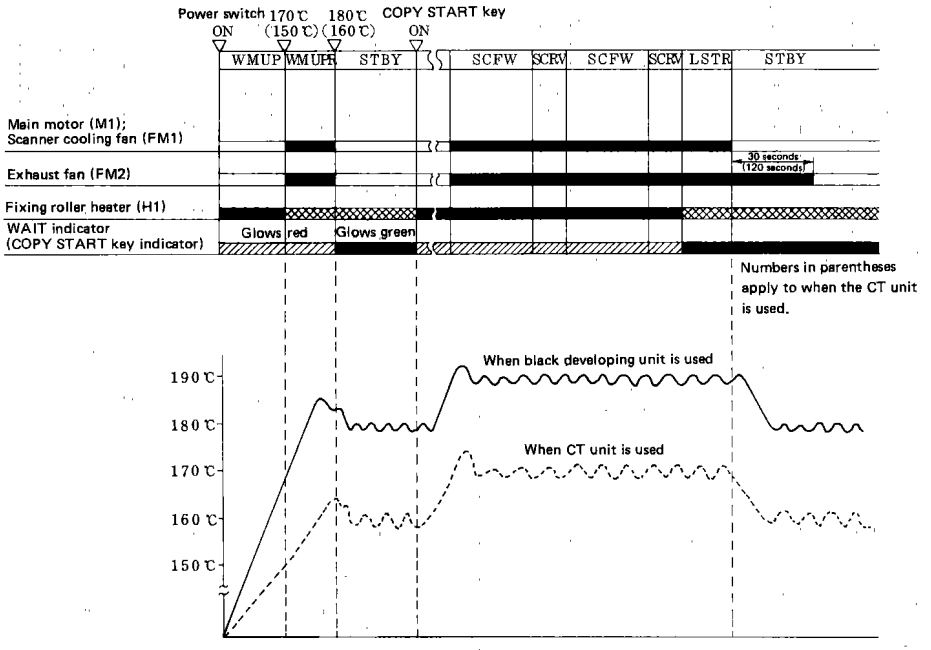


Figure 3-34

Note:
When an A4R or B5R cassette is used, the fixing roller temperature is controlled in more or less the same way as shown in Figure 3-34. If the copying process takes more than two minutes, however, the target fixing roller temperature will switch to 180°C (160°C for the CT unit) when the last copy of a copy run has been made.

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D. JAM DETECTION

The copier has two sensors to sense whether copy paper is being fed normally.

* Pick-up unit paper sensor (Q2)
* Delivery unit paper sensor (Q5)

Paper jams can be identified by the microprocessor by reading signals from the sensors at predetermined times to check if paper is at or not at a sensor at that time, and thus identify if the paper is moving through the copier correctly.

If a jam occurs, the copier memorizes the number of copies that have not yet been made and also the copier settings. This information is stored in the copier for about 10 minutes, even if the power is cut off by opening the front door in order to reset the copier.

The microprocessor identifies a jam in any of the following four cases. Also, the microprocessor judges that there is a jam if one of the sensors detects paper when the power is switched ON.

(1) Pick-up unit stationary jam

If the copy paper does not pass the paper sensor (Q2) in the pick-up unit within the specified period after paper pick-up starts, the microprocessor will judge that a stationary jam has occurred and immediately stop the operation of the copier. Also, the JAM indicator on the control panel will flash and a segment of the JAM POSITION indicator will go ON.

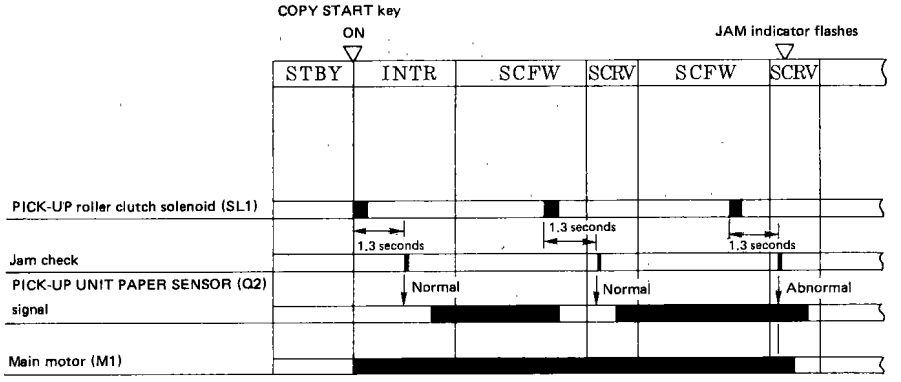


Figure 3-35 Pick-up unit stationary jam

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(2) Pick-up unit delay jam

If the copy paper does not reach the paper sensor of the pick-up unit within a specified period after paper pick-up-starts, the microprocessor will judge that a pick-up delay jam has occurred, and immediately stop the operation of the copier. Also, the JAM indicator on the control panel will flash and a segment of the JAM POSITION indicator will go ON.

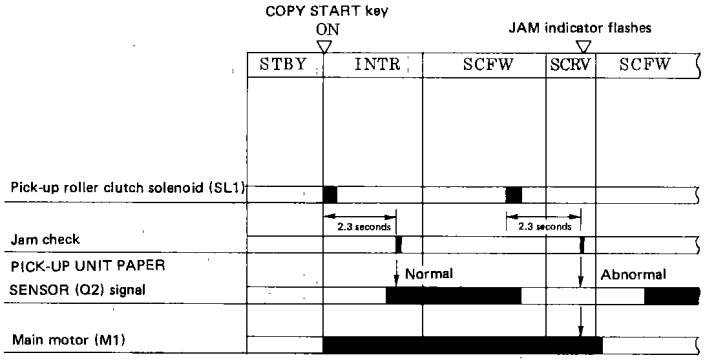


Figure 3-36 Pick-Up unit delay jam

(3) Delivery unit stationary jam

If the copy does not pass the delivery unit paper sensor within the specified period after the registration roller clutch operates, the microprocessor will judge that a delivery unit stationary jam has occurred, and immediately stop the operation of the copier. Also, the JAM indicator on the control panel will flash and a segment of the JAM POSITION indicator will go ON.

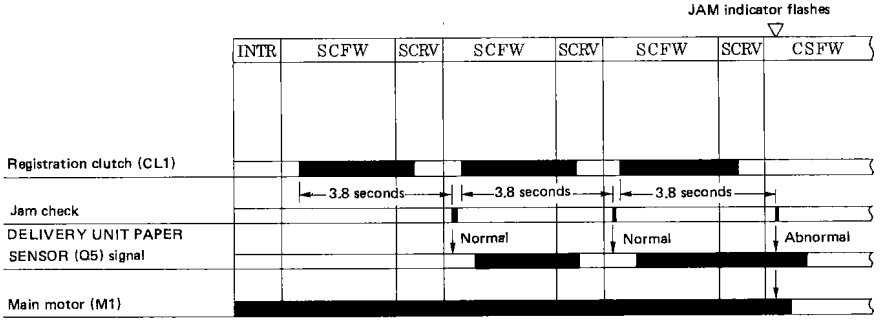


Figure 3-37 Delivery unit stationary jam

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(4) Delivery unit delay jam

If the copy does not reach the delivery unit paper sensor within the specified period after the registration roller clutch has operated, the microprocessor will judge that a delivery unit delay jam has occurred, and immediately stop the operation of the copier. Also, the JAM indicator on the control panel will flash and a segment of the JAM POSITION indicator will light.

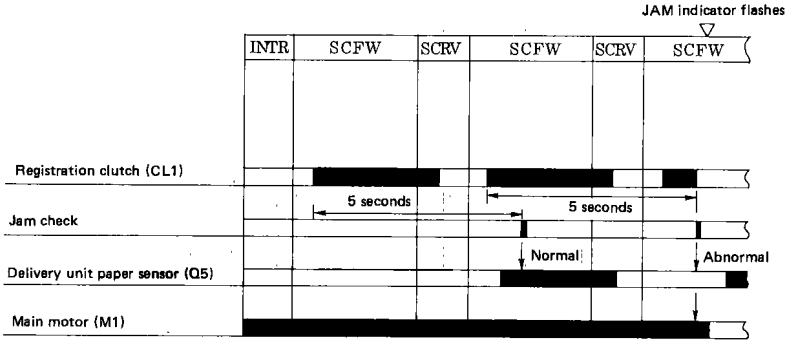


Figure 3-38 Delivery unit delay jam

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V. POWER SUPPLY

A. DC POWER SUPPLY

1. Outline

When the door switch (DSW) and power switch (SW1) are ON, the AC power lines are connected to the DC power supply PCB, which supplies 30VDC, 24VDC, and 5VDC to the copier.

The 30VDC supply drives the scanner fan motor (M2), and the 24VDC supply is used for fans, solenoids, etc., and also powers the HVT. The 5VDC supply is used for the sensors and also the ICs and other devices on the DC controller PCB.

B. DC POWER SUPPLY CIRCUITS

The AC supply voltage is reduced to 29VAC, 23VAC, and 10VAC by circuits (A), (B), and (C) of transformer T1. These voltages are rectified by the DC power supply PCB, to provide, respectively, 24VDC, 30VDC, and 5VDC.

If the output voltages of the 24VDC and 5VDC power supplies fluctuate, the copier may misoperate. Consequently, regulators are used in both of these supplies to prevent voltage fluctuations.

The 24VDC circuit has an overcurrent detection circuit. If excessive current is drawn, the transistor in the detection circuit will go ON, causing the 24VDC output to stop. Also, the DC controller monitors the 24VDC voltage continuously. If this voltage fluctuates due to an abnormality, the DC controller will output a 24V-OFF signal (DCOFF) to stop the 24V output.

When the 24V output stops, the copier will stop operating.

To reset the 24V output, open the front door, remove the cause of the stoppage, then close the door. If the door is opened and closed repeatedly without clearing the problem, the fuse on the DC power supply PCB may blow.

The DC power supply PCB generates a continual zero-cross signal which is outputted to the DC controller. It is used as a timing signal for AE operations.

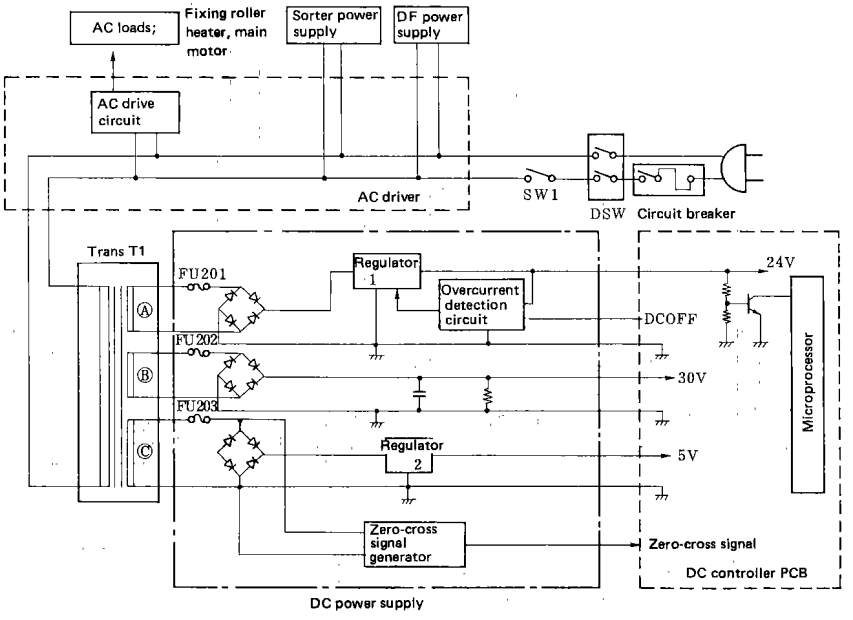


Figure 3-39

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VI. LIST OF PCBS/VRS/LEDS /CHECK PINS

Variable resistors, LEDs and check pins which are used for adjustments in the field are listed below.

VRs and check pins not listed here are used only for factory adjustments which require special tools and measuring instruments, as well as great care and precision. Do not attempt to adjust such parts.

Note:

1. Leakage current may flow through some LEDs and cause them to glow dimly even though they are supposed to be OFF.
2. VRs which can be adjusted in the field ..... ⊘
3. VRs which should not be adjusted in the field ..... ⊘

1. DC Controller PCB

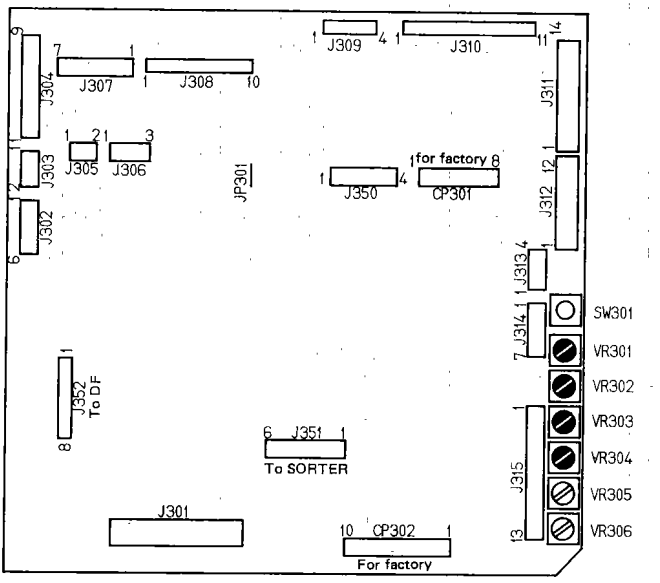


Figure 3-40

VR No.	Prupose	
VR301	leading edge registration	
VR302	leading edge blank width	
VR303	AE reference point	For details of the method of adjustment, see the subsection "AE adjustment".
VR304	AE skew	

Table 3-7

SW No.	Prupose
SW301	Press to enter or leave the SERVICE mode

Table 3-8

- When non-AE mode is selected in a standard mode, cut off the jumper wire JP301.
- When removing the connector J350 in case the DC controller is replaced and so on, be sure to connect the connector J350 at the time of installation.

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VII. SELF DIAGNOSIS

The DC controller PCB has a microprocessor that diagnoses the functions of the copier (particularly the sensors) at appropriate intervals. If this microprocessor detects an abnormality, it will display the type of the abnormality on the indicator on the control panel.

The table below shows the various fault codes, their meaning, and the corresponding detection timing.

Example of E000 code indication: 00 light alternately.

Code displayed	Main cause	Fault criteria
E000	Thermistor (TH1), heater (H1), AC driver PCB, DC controller PCB, operation of thermoswitch	• If the temperature of the fixing rollers after 30 seconds is virtually the same as when the copier is turned ON. (This indication does not appear if warm-up is completed within 30 seconds.) • If the temperature of the fixing roller drops below 100°C for 2 seconds or longer after warm-up is completed.
E001	Defective thermistor (TH1), AC driver PCB, or DC controller PCB	If the temperature remains 300°C or higher for 2 seconds or longer
E030	Counter, DC controller PCB	If the break signal is emitted continuously for 2 seconds or more the counter is not being driven
E202	Scanner HOME position sensor (Q3), scanner motor (M2), motor controller PCB, or DC controller PCB	1. If the scanner is not at the HOME position (SCHP = 0) when the power is switched ON or the COPY START key is pressed. If the scanner does not return to the HOME position (SCHP remains 0) within 8 seconds after it starts to reverse 2. If the scanner is in the HOME position (SCHP = 1) when the power is switched ON or the COPY START key is pressed • If the scanner does not leave the HOME position (SCHP remains 1) within 1 second after it starts to advance • If the scanner does not return to the HOME position (SCHP remains 0) within 1 second after it leaves the HOME position (SCHP = 0) 3. If the scanner does not return to the HOME position (SCHP remains 0) within 5 seconds after it advances and passes the leading edge of the original (SCHP = 1), the DC controller PCB outputs a REVERSE signal once again. If it still does not return to the home position within 2 seconds (SCHP remains 0), this indication will be displayed.
E210	Lens home position sensor (Q5), lens motor (M3), or DC controller PCB	• If the lens does not return to the HOME position after the power is switched ON (LHP remains 0) • If LHP remains 1 for at least 4 seconds
E221	Lamp regulator or DC controller PCB	If ZXDP remains 0 continuously for 2 seconds
E400	DF controller PCB, DF power supply, or DC controller PCB	If DF remains 0 for 2 seconds or longer
E500	Sorter controller PCB or DC controller PCB	• If the copier communicates with the sorter for at least 2 seconds • If the SORTER STANDBY signal does not return within 5 seconds after the BCR signal is outputted

For reference:
In the event that the self-diagnostic function detects an abnormality, the copier can be reset by turning it OFF and then ON again. If E000 is displayed, however, the copier cannot be reset. THis is to prevent the fixing roller from overheating which could occur if the user were able to easily reset the copier, particularly in the event of a thermistor burnout.
The method of clearing an E000 condition is as follows:

1) Remove the variable resistor cover.
2) Switch the power ON.
3) Press switch SW301 of the DC controller PCB.
4) Switch the power OFF and then ON again.

Note:
A capacitor on the DC controller PCB provides retains the E000 indication when the power is turned OFF; E000 will be cleared after a period of between 5 and 10 minutes (period of self-discharge of the capacitor).

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1. EXTERNALS

A. COVERS, PANELS, AND DOORS

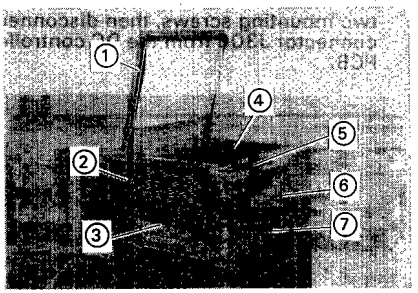
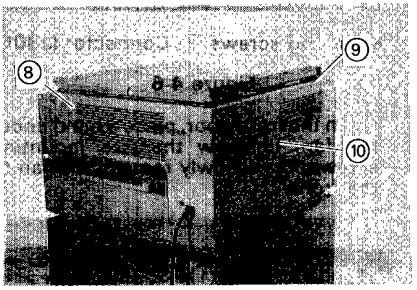


Figure 4-1



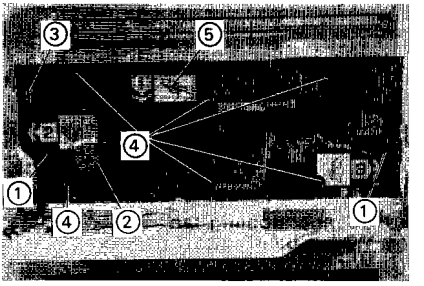
① Copyboard cover
② Left cover
③ Paper delivery door
④ Copyboard glass
⑤ Control panel
⑥ Front door
⑦ Cassette
⑧ Right cover
⑨ Upper rear cover
⑩ Rear cover

Figure 4-2

For cleaning, inspecting, or repairing inside the copier, remove covers and panels using the following procedure.
No description is given of the procedure for removing covers that can be removed by simply unscrewing the screws, securing them.

Note:
Before removing the copyboard glass, be sure that the copier is closed. If it is necessary to use solvent to clean the copyboard glass, use alcohol. Do not use MEK, because it may dissolve the white paint along the left edge of the glass.

1) Unscrew the two screws holding the front door strap, and open the front door fully.
2) Unscrew the screw, then remove the knob.
3) Unscrew the screw, then remove the magnet catch.
4) Unscrew the six screws, then remove the inner cover.



① Mounting screws
② Knob
③ Magnet catch
④ Mounting screws
⑤ Inner cover

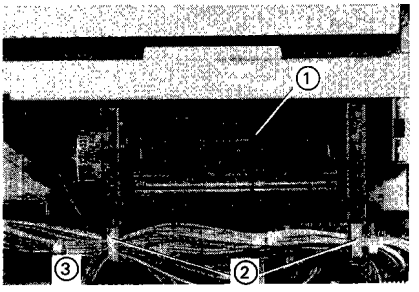
Figure 4-3

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B. FANS

1. Removing the Scanner Cooling Fan

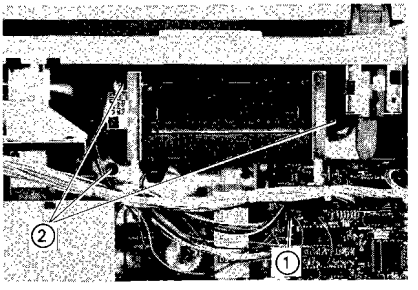
1) Remove the rear cover.
2) Remove the wiring from the wiring band of the scanner cooling fan.



① Scanner cooling fan
② Wiring band
③ Wiring

Figure 4-4

3) Disconnect connector J305 from the DC controller PCB, unscrew the three mounting screws, then remove the scanner cooling fan.

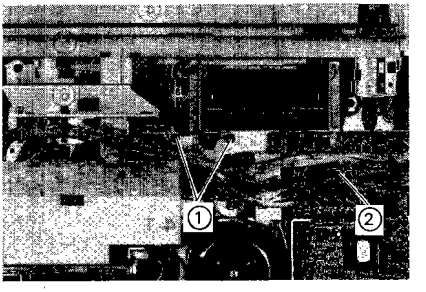


① Connector (J305) ② Mounting screws

Figure 4-5

2. Removing the Exhaust Fan

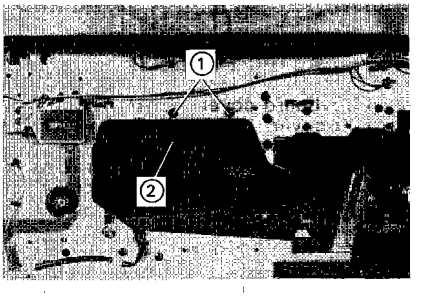
1) Remove the rear cover.
2) Remove the rear cover, unscrew the two mounting screws, then disconnect connector J306 from the DC controller PCB.



① Mounting screws ② Connector (J306)

Figure 4-6

3) Open the front door, place a hand under the fan, unscrew the two mounting screws, then slowly remove the fan to the front.

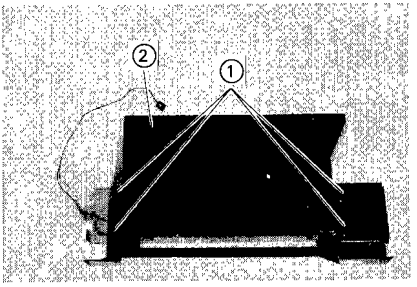


① Mounting screws ② Exhaust fan ass'y

Figure 4-7

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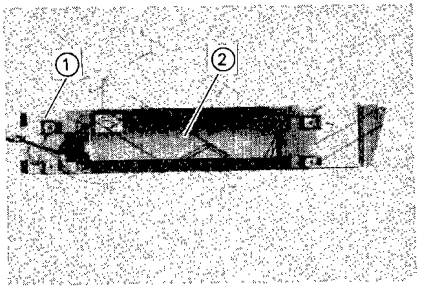
4) Unscrew the four mounting screws and remove the fan duct.



① Mounting screws ② Fan duct

Figure 4-8

5) Unscrew the four mounting screws, then remove the exhaust fan from the fan mount.



① Fan mount ② Exhaust fan

Figure 4-9

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DRIVE SYSTEM

A. LENS DRIVE UNIT

This unit has been accurately adjusted at the factory with special gauges, so do not remove any parts other than those shown below, nor loosen any screws.

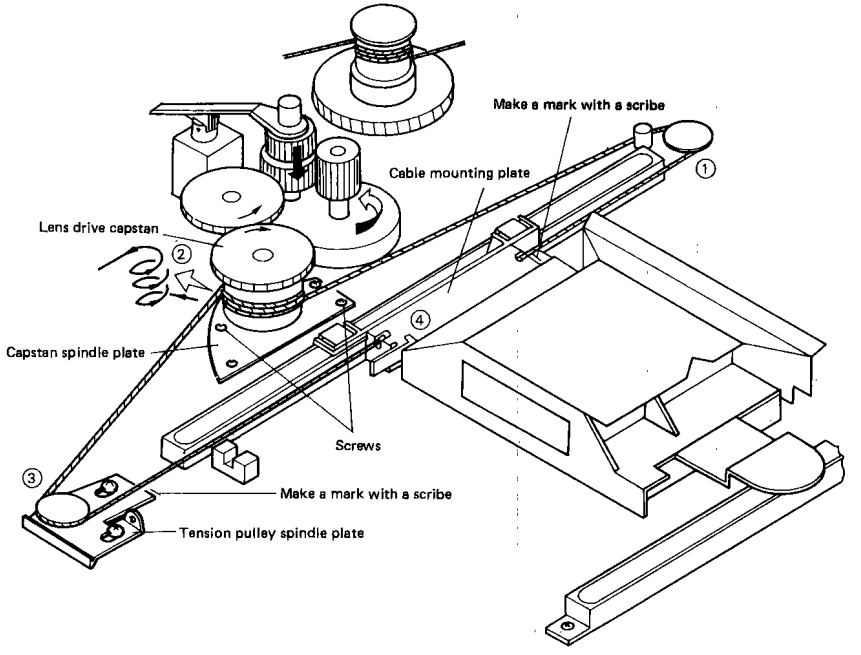
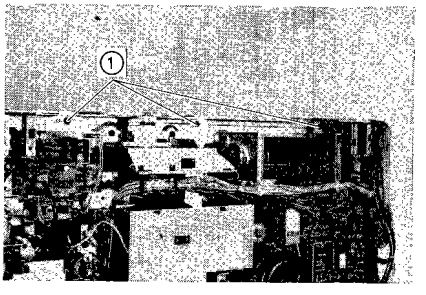


Figure 4-10

1. Removing the Lens Drive Cable

1) Unscrew the three screws shown in Figure 4, then remove the upper frame.



① Screws

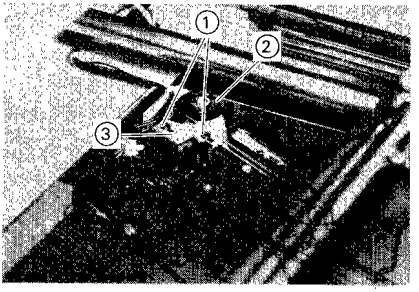
Figure 4-11

2) Mark the positions of the tension pulley spindle plate and the cable mounting plate with a scribe.
3) Unscrew the two screws securing the tension pulley spindle plate.
4) Remove the cable.

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2. Attaching the Lens Drive Cable

1) Unscrew the two screws securing the lens drive capstan spindle plate and remove the capstan. (See Figure 4-10.)



① Mounting screws ② Pulley
③ Tension pulley spindle plate

Figure 4-12

2) Wind the lens drive cable around the capstan as shown in Figure 4-10, and secure it with the two screws.
3) Shift the pulley spindle plate to the position of the scribed mark, then secure it with the two screws.

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B. SCANNER DRIVE UNIT

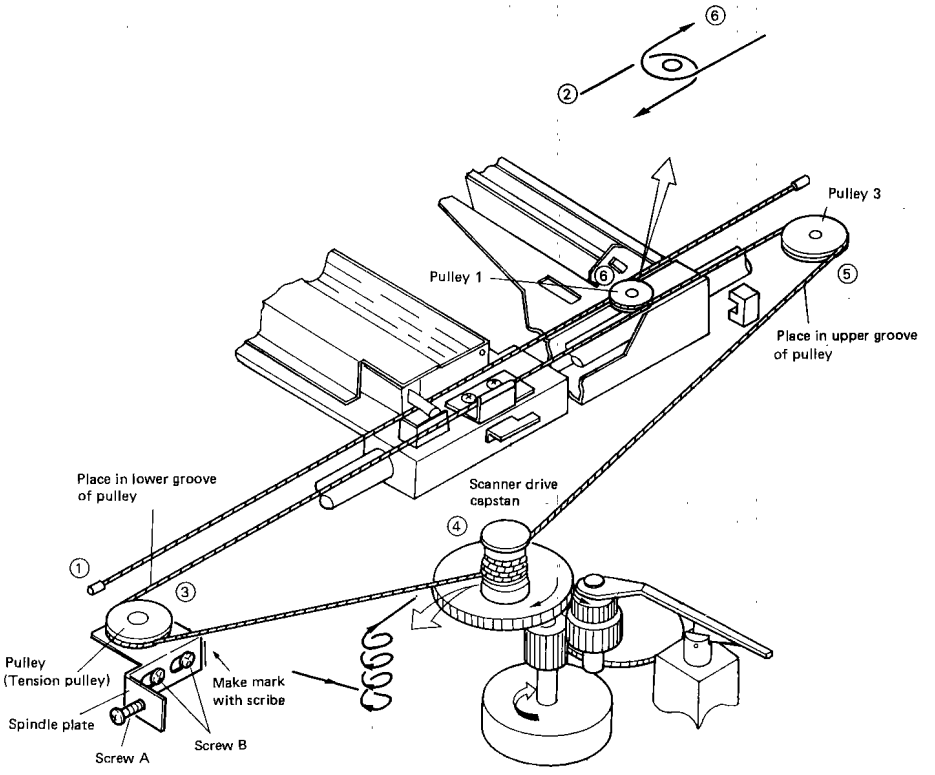


Figure 4-13

1. Removing the Scanner Drive Cable

1) Make a mark on the tension pulley spindle plate with a scribe, then loosen screws B (two) securing the plate.
2) Slacken off screw A enough to remove the scanner drive cable.

2. Installing the Scanner Drive Cable

1) String the scanner drive cable in the order shown in Figure 4-13.
2) Using screw A, move the spindle plate to the position of the scribed line.
3) Tighten screws B.

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3. How to use the mirror cleaning tool

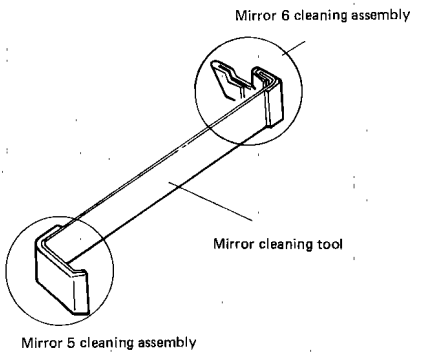


Figure 4-14

1. Cleaning method tor mirror 5 assembly.

1) Remove the copyboard glass, the lens cover and the mirror cleaning tool on the lens mount. (one screw)
2) Remove the lens cover and install the mirror cleaning tool as shown in Figure 4-15.

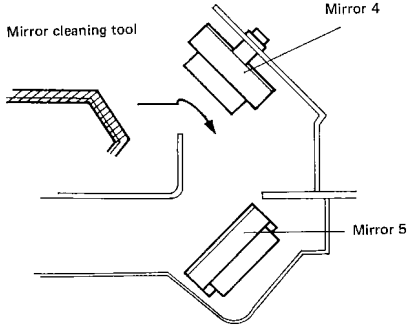


Figure 4-15

3) As shown in Figure 4-16, press the mirror cleaning tool against the mirrors and slide the tool for cleaning.

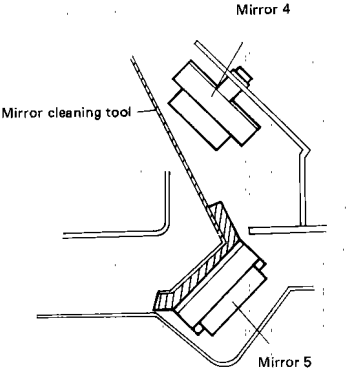


Figure 4-16

2. Cleaning method for mirror 6 assembly

1) Remove the drum cartridge, the developing assembly and the dustproofing glass.
2) As shown in Figure 4-17, press the mirror cleaning tool against the mirror 6 and slide the tool for cleaning.

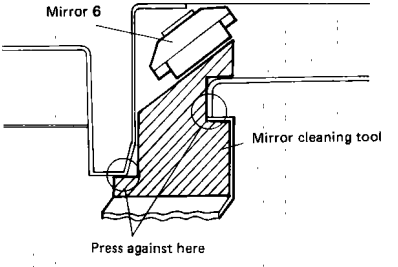


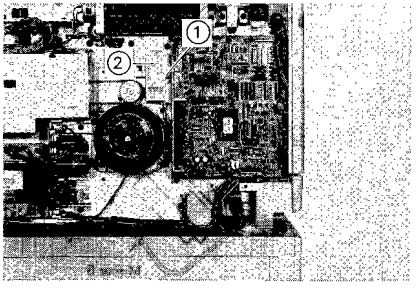
Figure 4-17

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C. MAIN MOTOR ASSEMBLY

1. Removing the Main Motor

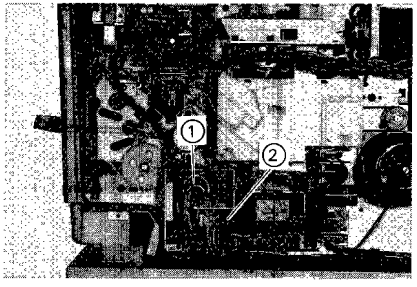
1) Remove the rear cover, then remove the screw and remove the capacitor and capacitor cover.



① Screw ② Capacitor cover

Figure 4-18

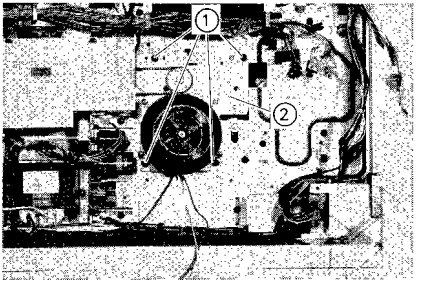
2) Disconnect all connectors from the DC controller PCB, then remove the DC controller PCB.
3) Disconnect connector J105 from the AC driver PCB.



① AC driver PCB ② Connector (J105)

Figure 4-19

4) Unscrew the four screws, then lift the main motor and remove it from the front.



① Mounting screws ② Main motor

Figure 4-20

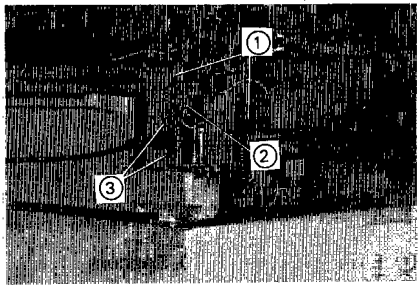
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III. PAPER TRANSPORT SYSTEM

A. PAPER PICK-UP ASSEMBLY

1. Removing the U Guide Plate

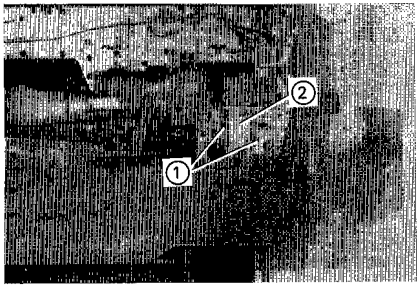
1) Remove the inner cover, right cover, and rear cover, then open the manual feed tray.
2) Disconnect the two connectors and the Faston, unscrew the two screws, then remove the power cord mount.



① Connectors ③ Mounting screws
② Faston

Figure 4-21

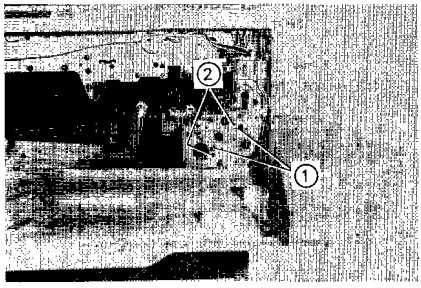
3) Remove the developing unit rail mount. (two screws)



① Mounting screws ② Developing unit rail mount

Figure 4-22

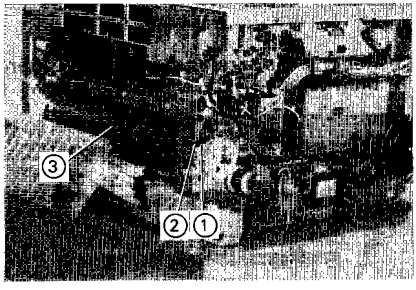
4) Unscrew the screw and remove the two pins.



① Mounting screws ② Pins

Figure 4-23

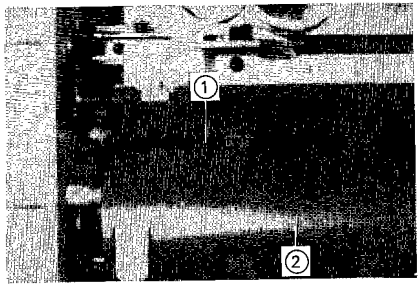
5) Unscrew the screw and remove the rear pin.



① Mounting screw ③ U Guide plate
② Pin

Figure 4-24

6) Remove the U guide, being careful of the arm of the pick-up paper sensor.



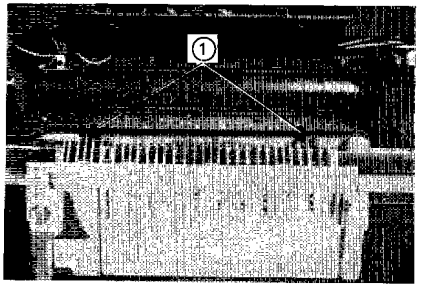
① Arm of the pick-up paper sensor
② U Guide plate

Figure 4-25

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2. Removing the Pick-up Rollers

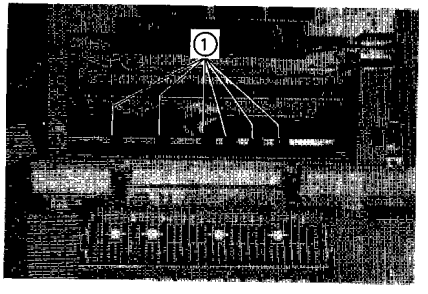
1) Remove the U guide plate. (Refer to the sub-section on removing the U guide plate.)
2) Unscrew the two screws holding the band of the manual feed tray.



① Mounting screws

Figure 4-26

3) Remove the screws shown in the figure, then remove each mounting screw.

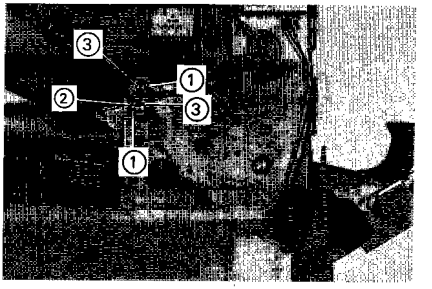


① Mounting screw

Figure 4-27

3. Removing the Registration Rollers

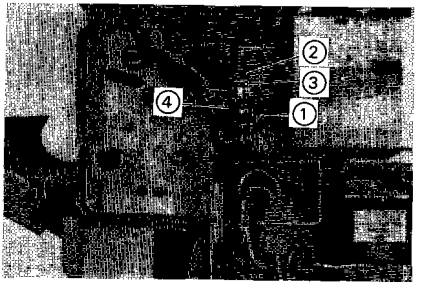
1) Open the front door and remove the developing unit and the drum unit.
2) Remove the U guide plate. (Refer to the sub-section on removing the U guide plate.)
3) Remove the two E rings, the tension spring, and the two spacers.



① E rings
② Tension spring
③ Spacers

Figure 4-28

4) Remove the rear cover.
5) Remove the clip retaining ring, then unscrew the screw, and finally remove the mounting clutch.

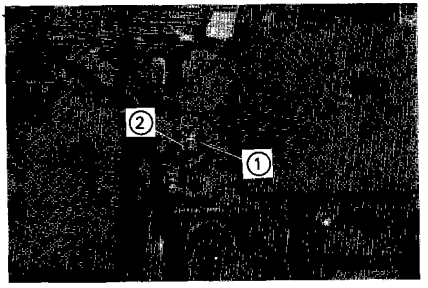


① Clip retaining ring
② Screw
③ Mounting clutch
④ Registration roller clutch

Figure 4-29

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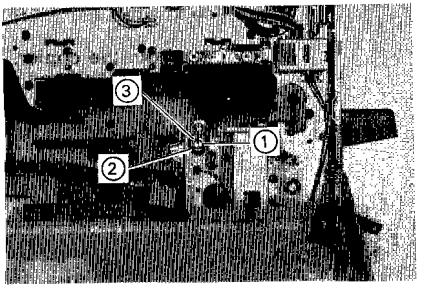
6) Pull out the registration roller clutch (See Figure 4-29), then remove the spacer.



① Spacer ② E-ring

Figure 4-30

7) Remove the two E-rings, tension spring, and two spacers, then remove the registration rollers.

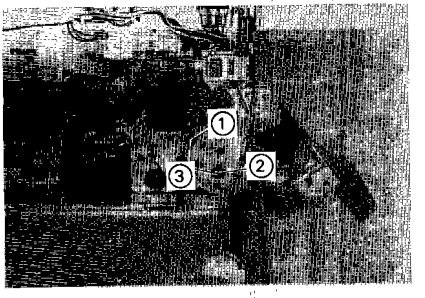


① E-ring ③ Spacers
② Tension spring

Figure 4-31

4. Removing the Feed Roller and Preregistration Roller

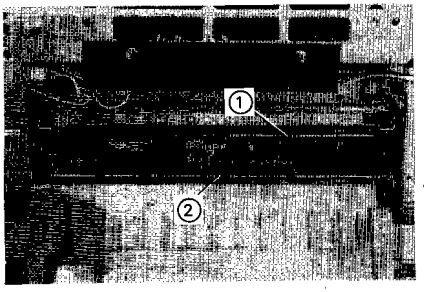
1) Remove the U guide
2) Remove the two E-rings, remove the gear of the feed roller and the Pre registration roller.
3) Remove the two E-rings, then remove the bearings of the feed roller and the manual feed pick-up roller.



① Manual feed pick-up roller bearing ③ E-ring
② Feed roller bearing

Figure 4-32

4) Open the manual feed unit and remove the feed roller and manual feed pick-up roller



① Feed roller ② Manual feed pick-up roller

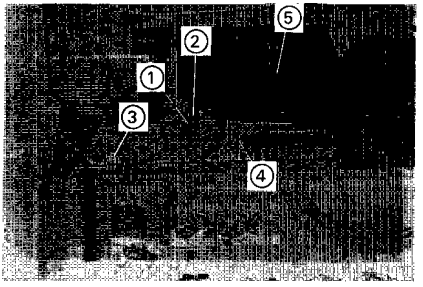
Figure 4-33

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B. FEEDER

1. Removing the Feeder

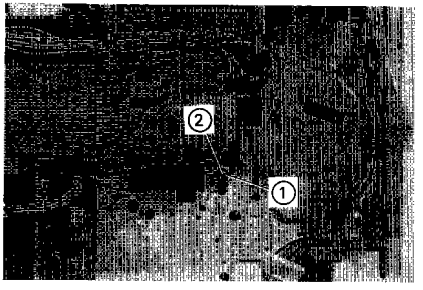
1) Remove the drum cartridge, rear cover, and fixing unit.
2) Unscrew the two screws holding the front door strap, and open the front door fully.
3) Remove the E-ring, bearing, and screw, then remove the connector.



① E-ring
② Bearing
③ Connector
④ Screws
⑤ Feeder

Figure 4-34

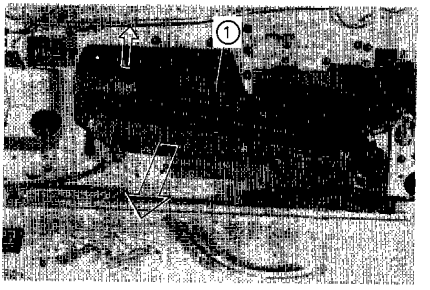
4) Remove the DC controller PCB and the main motor. (See .)
5) Remove the E-ring and the bearing.



① E-ring
② Bearing

Figure 4-35

6) Raise the closer to the end of the feeder fixing assembly slightly, then slowly remove the feeder from the front.



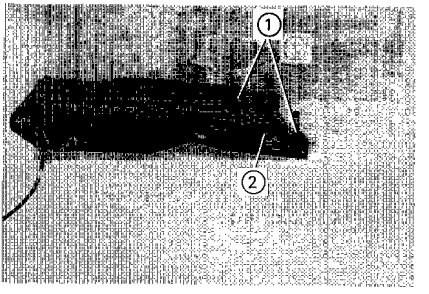
① Feeder

Figure 4-36

Note:
When removing the feeder, take care not to damage the developing cylinder.

2. Removing the Feeder Belt

1) Remove the feeder from the copier.
2) Unscrew the two screws and remove the cover.

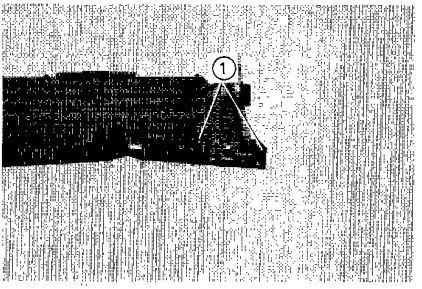


① Screw
② cover

Figure 4-37

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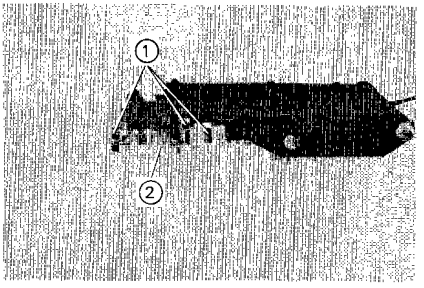
3) Unscrew the two screws.



① Screws

Figure 4-38

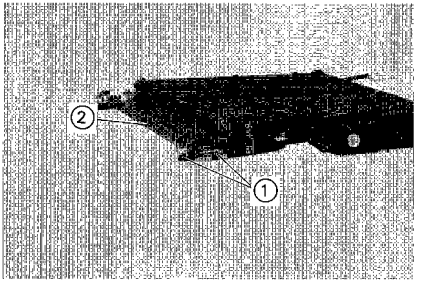
4) Unscrew the three screws then remove the cover.



① Screws ② cover

Figure 4-39

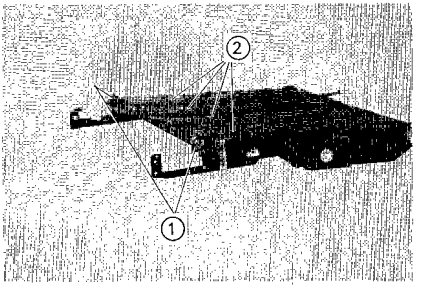
5) Unscrew the two screws then remove the stay.



① Mounting screws ② stay

Figure 4-40

6) Remove the two E-rings, then remove the shaft, and finally remove the feeder belt.



① E-rings ② Feeder belt

Figure 4-41

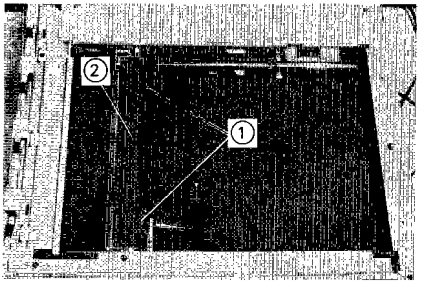
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IV. EXPOSURE SYSTEM

A. SCANNER

1. Removing the Scanning Lamp

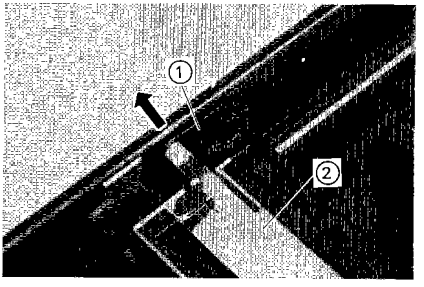
1) Unplug the copier.
2) Remove the control panel and copyboard glass.
3) Unscrew the two screws and remove the reflector.



① Screws ② Reflector

Figure 4-42

4) Push the contact (rear) in the direction of the arrow and remove the scanning lamp.



① Lamp contact ② Scanning lamp

Figure 4-43

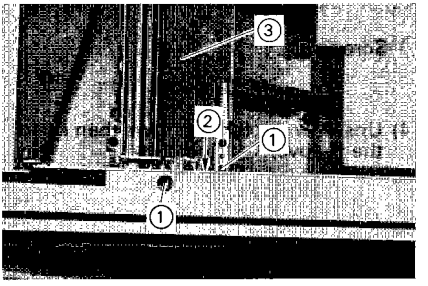
Note:
1. The scanning lamp will be hot, if it has been operating recently.
2. Never touch the surface of the scanning lamp, with bare hands.
3. If the scanning lamp is dirty, wipe it with a dry cloth. If there are any fingerprints or skin oil on it, clean them off with solvent.

2. Removing the Thermal Fuse

1) Remove the control panel and copyboard glass.
2) Grasp the rear of mirror 1 mount move it to the right, and bring it to the part shown in Figure 4-44.

Note:
Be sure to hold the rear of the mirror 1 mount at the rear when moving it.

3) Unscrew the two mounting screws, then remove the thermal fuse.



① Mounting screws ③ Mirror 1 mount
② Thermal fuse

Fiugre 4-44

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B. BLANK EXPOSURE UNIT

1. Configuration

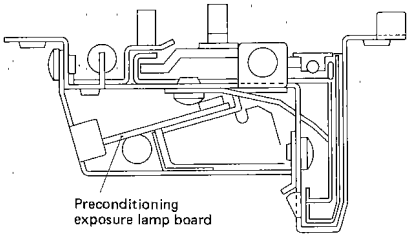


Figure 4-45

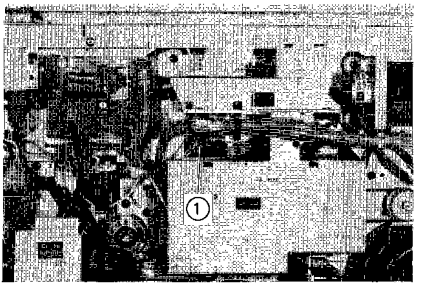
2. Preconditioning Exposure Lampboard

1) Remove the rear cover.
2) Disconnect connector J731 on the preconditioning exposure lampboard.
3) Grasp the lampboard with pliers, and pull it straight out.

Note:
Take care not to damage the board.

3. Blank Exposure Unit.

1) Remove the copyboard glass, lens cover, rear cover, and drum unit.
2) Remove connector J731 on the preconditioning exposure lampboard.

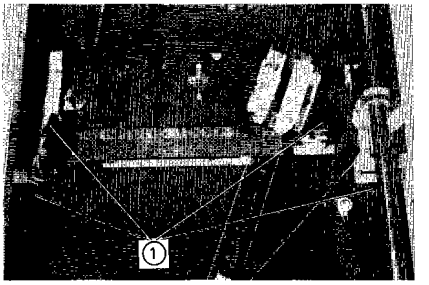


① Connector (J731)

Figure 4-46

3) Place a hand under the blank exposure unit, unscrew the four screws, then slowly remove the preconditioning exposure unit from the front.

Note:
Take care not to damage the developing cylinder.



① Screws

Figure 4-47

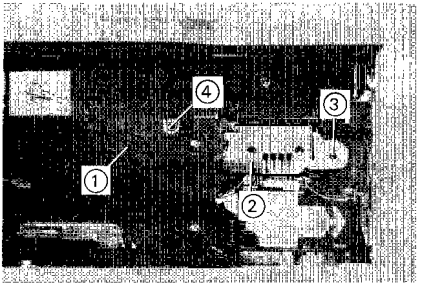
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V. CHARGING/CLEANING

A. DRUM CARTRIDGE

1. Removing the Drum Cartridge

1) Open the front door and unscrew the screw.



① Drum cartridge
② Developing unit
③ Developing unit release lever
④ Screw

Figure 4-48

2) Swing the developing unit release lever counterclockwise.
3) Slowly pull the drum cartridge to the front.

Note:
Take care not to damage the drum.

The photosensitive drum is adversely affected by strong light, so blank areas or black bands may occur if the drum is exposed to strong light for a long period. After removing the drum cartridge from the copier, wrap the photosensitive drum in a light blocking sheet (or a few sheets of blank copy paper) and put it in a dark place.

For reference:
If the photosensitive drum is exposed to light of an intensity of 1500 lux for 5 minutes then left in a dark location for a further 5 minutes, it will recover to the extent that copies can be made without problem. The drum should never be exposed to direct sunlight, however, which have an intensity of 10,000 and 30,000 lux.

As a general rule, do not switch the copier ON with the drum cartridge removed or with the covers and doors open. If the copier is switched ON with the drum cartridge removed, the trouble described in 1. below with occur. If it is switched ON while it is open, the trouble described in 2. will occur.

1. The registration rollers and transfer guide will be touching each other. If the registration rollers rotate (as in WMUPR), they will be damaged.

Note:
Do not press the COPY START key.

2. Cleaning

If the photosensitive drum is dirty, wipe it with a flannel cloth sprinkled with toner. Do not use lintfree paper.
Never clean the photosensitive drum with a dry cloth.
Never clean the drum with drum cleaning powder or solvent.

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B. PRIMARY/TRANSFER CORONA ASSEMBLY

1. Outline

The primary and transfer corona assemblies are located around the photosensitive drum. The primary corona assembly has a grid.

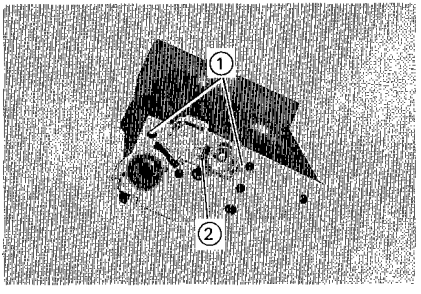
2. Disassembly/Reassembly

a. Removing the primary corona assembly grid plate.

1) Remove the drum CARTRIDGE.

Note:
The photosensitive drum is adversely affected by strong light, so blank areas or black bands may occur if the drum is exposed to strong light for a long period. Do not, therefore, expose the drum to light.

2) Unscrew the two screws, then remove the primary corona assembly from the photosensitive drum.

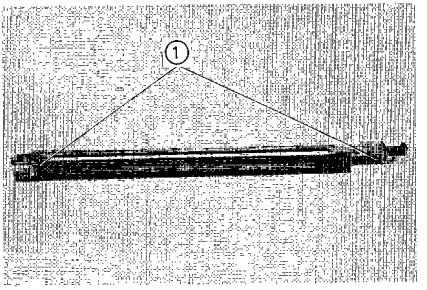


① Screws ② Primary corona unit

Figure 4-49

b. Removing the guide wire/static charge eliminator of the transfer corona assembly.

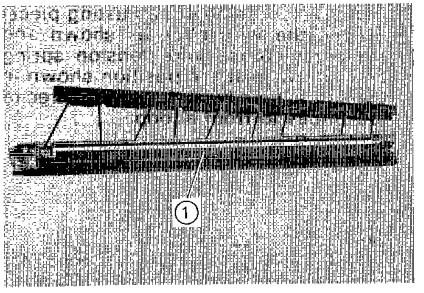
1) Remove the transfer corona assembly from the copier.
2) Unscrew the two screws, then pull the static charge eliminator to separate it from the guide wire.



① Mounting screws

Figure 4-50

3) Remove the static charge eliminator.

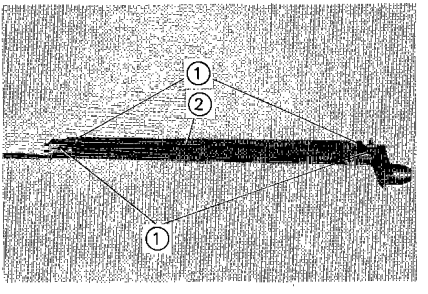


① Static charge eliminator

Figure 4-51

C. Attaching the corona wires of the primary/transfer corona assembly.

1) Primary corona unit, remove the four tension springs then remove the grid plate, as shown in the figure.



① Grid wire tension
② Grid plate

Figure 4-52

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2) Transfer corona assembly: remove the guide wire of the transfer corona assembly. (Refer to the subsection "Removing the guide wire/static charge eliminator of the transfer corona assembly.)
3) Unwind a short length of 0.06 mm diameter corona wire from the reel and make a loop about 2 mm (0.07˝)in diameter at the end of.

For reference:
The loop can be formed easily by winding the wire once around an allen wrench, then twisting the wrench four of five times.

4) Cut the loose end of the loop to less than 1mm.
5) Attach the loop as shown in Figure 4-53, and unreel the wire to the other end of the frame, leading the wire in the V groove of the height adjusting piece. Double the wire back as shown and hook the corona wire tension spring onto the wire at the position shown in the figure, then twist the spring three or four times to from a loop.

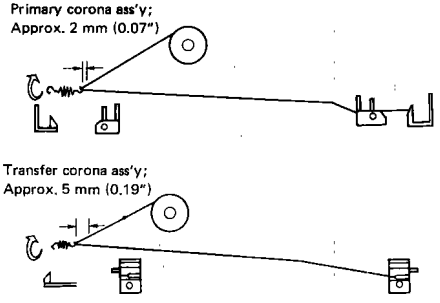


Figure 4-53

6) Cut the wire leaving a loose end of no more than 1mm.(0.04˝)
7) Grasp the end of the corona wire tension spring with tweezers, and attach it to the terminal.

Note:
Check the following points.

- The corona wire must not be bent or twisted, and the gold plating must not be peeling off.
- The corona wire must not be slack. (The length of the corona wire tension spring should be about 12 mm (0.5˝).)
- The corona wire must be in the V groove of the height adjusting piece.

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VI. DEVELOPING SYSTEM

A. DEVELOPING ASSEMBLY

1. Configuration

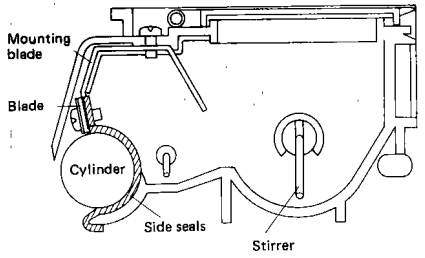
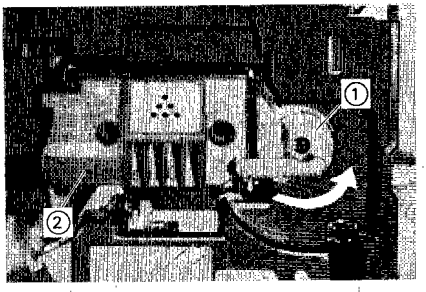


Figure 4-54

2. Removing the Developing Assembly from the Copier

1) Swing the developing assembly release lever counterclockwise.
2) Gently pull out the developing assembly carrier.
3) Grasp the handle of the developing assembly, and remove it from the copier.

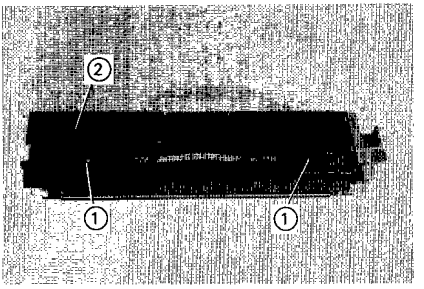


① Developing assembly release lever ② Developing assembly

Figure 4-55

3. Removing the Blade/Developing Cylinder/Side Seals

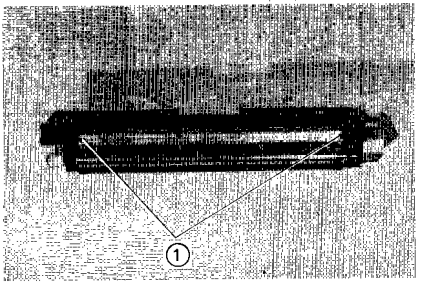
1) Remove the developing assembly from the copier.
2) Unscrew the screw, then remove the upper cover fixing plate.
3) Remove the upper cover.



① Screw ② Upper cover

Figure 4-56

4) Unscrew the two screws, then remove the upper cover of the developing assembly.

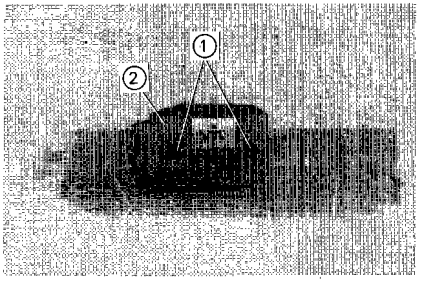


① Screws

Figure 4-57

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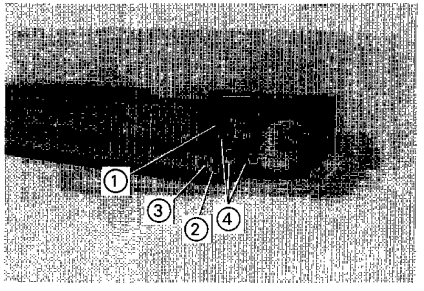
5) Spread newspapers on the floor, then open the toner in the developing unit.
6) Unscrew the screws and remove the mounting blade with blade. (see Figure 4-57).
7) Unscrew the two screws and remove the handle.



① Screws ② Handle

Figure 4-58

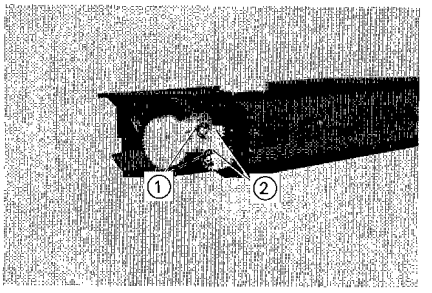
8) Unscrew the four screws, then remove the developing cylinder holder (front), ball bearing, and developing cylinder.



① Developing cylinder holder ③ Developing cylinder
② Ball bearing ④ Screws

Figure 4-59

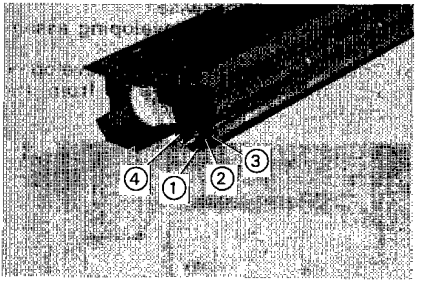
9) Remove the two E-rings, then remove the two gears.



① E-rings ② Gears

Figure 4-60

10) Unscrew the two screws, then remove the developing cylinder holder (rear), the ball bearing, and the developing cylinder.



① Developing cylinder holder (rear) ③ Developing cylinder
② Ball bearing ④ Screws

Figure 4-61

11) Remove the developing cylinder and side seals.

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4. Installing the Side Seals/Blade

1) Clean with alcohol the surface to which the side seal is to be applied.
2) Apply the side seal to the position shown in Figure 4-62.

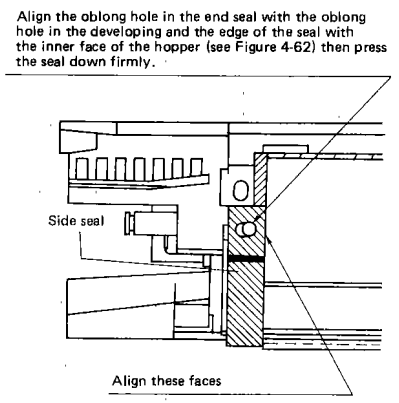

Align the oblong hole in the end seal with the oblong hole in the developing and the edge of the seal with the inner face of the hopper (see Figure 4-62) then press the seal down firmly.
Side seal
Align these faces

Figure 4-62

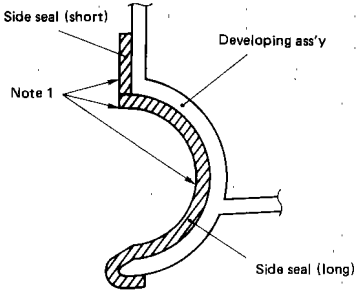


Figure 4-63 Cross-sectional view

Note 1:
Stick the side seals on the developer so that the short side seal is aligned with the end of the long side seal.

3) Install all parts other than the blade. When installing the gear, however, assemble it as shown below.

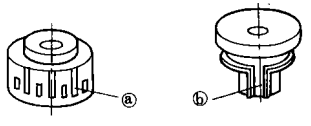
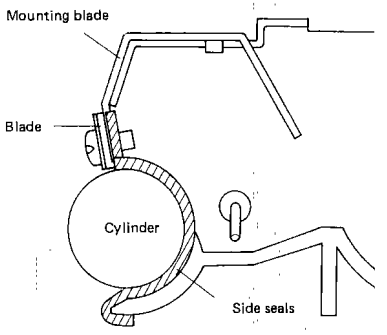


Figure 4-64

4) Push the blade mount against the developer in the direction of the arrow and tighten the two screws.



Fiugre 4-65

5) Loosen the four screws that hold the blade to the blade mount (note 2) and retighten the screws.

Note 2:
Be careful not to remove the blade from the center alignment pin by loosening the screws too much.

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VII. FIXING SYSTEM

A. FIXING UNIT

1. Configuration

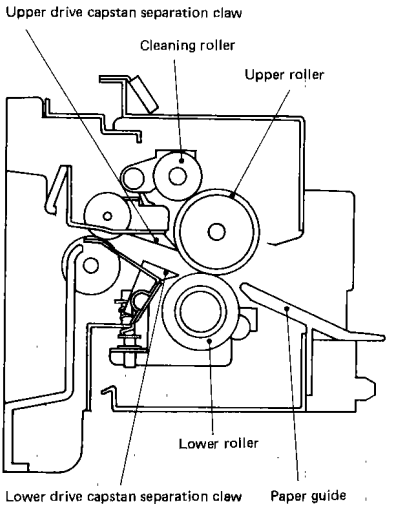
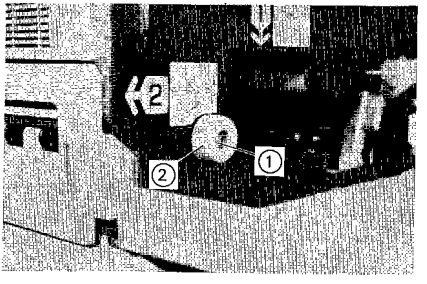


Figure 4-66

2. Removing the Fixing Unit.

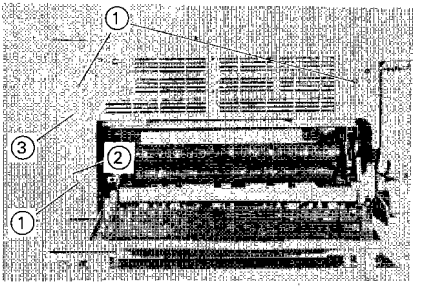
1) Unscrew the screw, then remove the knob.



① Screw ② Knob

Figure 4-67

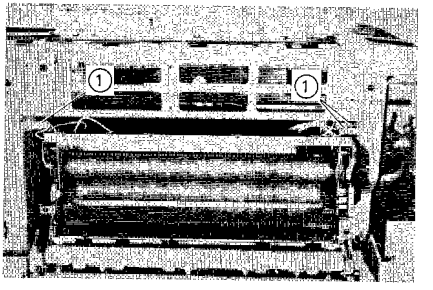
2) Remove the left cover, then unscrew the xx screws and remove the blanking plate.



① Screws ② Blanking plate

Figure 4-68

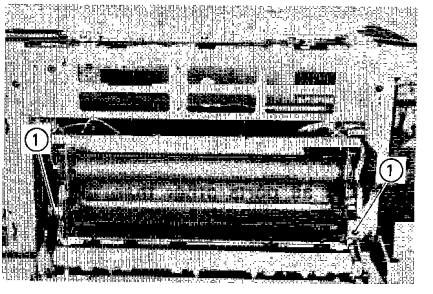
3) Disconnect the three connectors.



① Connectors

Figure 4-69

4) Unscrew the two screws, then remove the fixing unit.



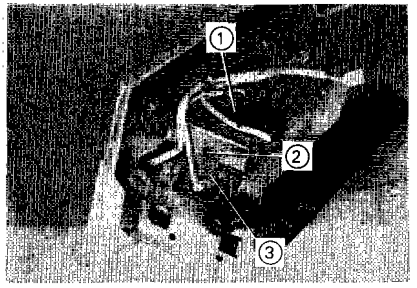
① Screws

Figure 4-70

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3. Removing the Upper Fixing Roller, Heater, and Lower Fixing Roller.

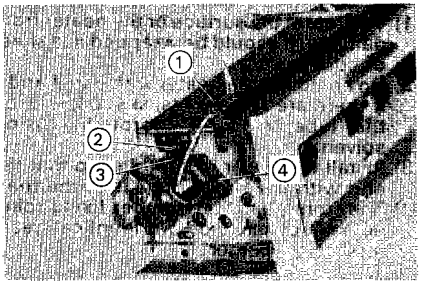
1) Remove the fixing unit from the copier
2) Remove the Faston and unscrew the screw to free the heater plate (front).



① Faston
② Screw
③ Heater mounting plate (front)

Figure 4-71

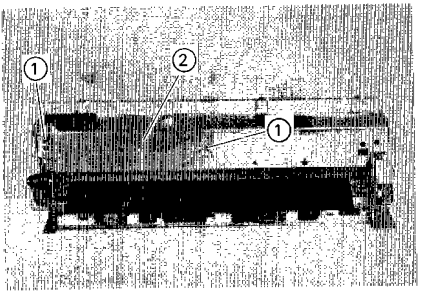
3) Remove the Faston, then unscrew the screw.
4) Slowly remove the heater mounting plate (rear) and the heater.



① Faston
② Screws
③ Heater mounting plate (rear)
④ Heater

Figure 4-72

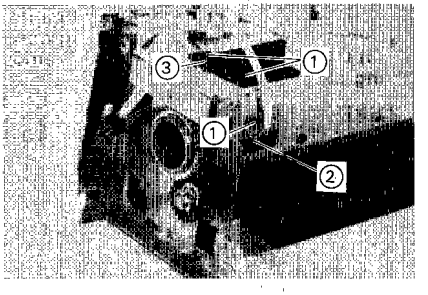
5) Unscrew the two screws, and remove the thermistor cover plate.



① Screws
② Thermistor cover plate

Figure 4-73

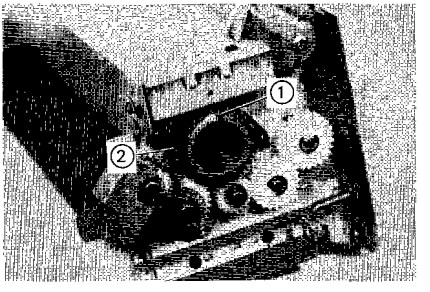
6) Unscrew the screw, and remove the thermistor.
7) Unscrew the screw, and remove the thermoswitch.



① Screw
② Thermistor
③ Themoswitch

Figure 4-74

8) Remove the C-ring at the rear, then remove the gear.

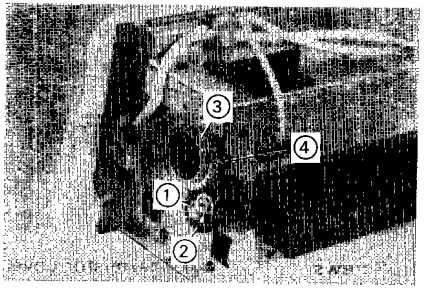


① C-ring
② Gear

Figure 4-75

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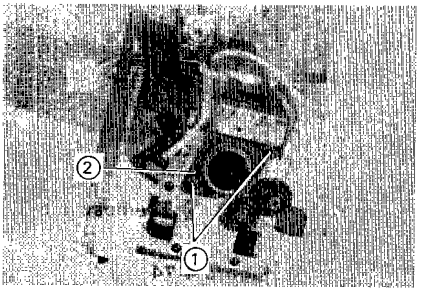
9) Remove the E-ring, and remove the gear.
10) Remove the C-ring, and remove the two gears.



① E-ring
② Gear
③ C-ring
④ Gear

Figure 4-76

11) Unscrew the two screws, and remove the bearing. Note that the bearing is being pressed by the lower fixing roller, making it difficult to remove. It can be removed more easily by pushing down on the upper fixing roller when removing it.



① Screws
② Bearing

Figure 4-77

12) While compressing the pressure spring of the lower fixing roller with a screwdriver, remove the upper fixing roller.

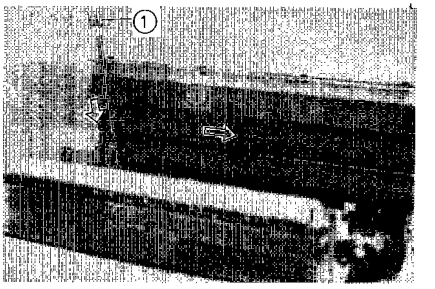


Figure 4-78

13) Remove the lower fixing roller.

4. Installing the Upper Fixing Heater

Installing the upper fixing heater is the reverse of removing it. Be careful of the following points, however.

a. Handling the heater

(1) To protect the surface of the heater from damage, it should be wrapped in a sheet of copy paper.
(2) Do not touch the heater with bare hands. If there are fingerpints, skin oil, etc., on the tube, clean it thoroughly using solvent.
(3) Install the upper fixing roller so that the end with the two C-rings is at the rear.
(4) The front gear of the upper fixing roller actually consists of two identical gears installed together.

5. Adjusting the Nip Width (tightening the pressure adjustment nuts)

The nip width must be no more than the dimension indicated in Table 4-1. If it exceeds this value, adjust it with the nuts.

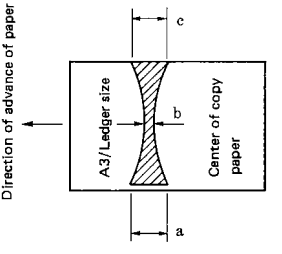


Figure 4-79

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Note:
a and c are the dimensions 15mm (0.6") from each edge.

Dimension	Measure after the upper and lower rollers have heated up.
b	4.0±0.5mm (0.16"±0.008")
|a – c|	0.5mm or less

Table 4-1

a. Measuring the nip width
If the rollers are cool, wait 15 minutes beyond when the copy START indicator begins glowing green, make 20 copies, then measure the nip width.

b. Measuring procedure
1) Raise the copyboard cover and make an A3 Ledger size solid black copy.
2) When the leading edge of the copy paper first appears at the delivery port, set the power switch OFF, and open the front door and the paper delivery unit.
3) Turn the fixing unit knob very slightly counterclockwise stop it in that position for 15 seconds, then turn the knob again to deliver the paper completely.
4) Measure the width of the toner area with a glossy surface, as shown in Figure 4-79.

6. Installing the Thermistor
Confirm that the sensor surface of the thermistor is touching the surface of the upper fixing roller evenly.

For reference:
There is no need to adjust the position of the thermistor.
If the thermistor is not touching the upper fixing roller evenly, check if the thermistor spring is deformed.

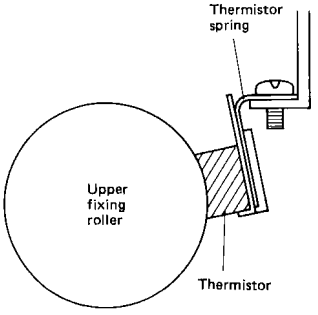


Figure 4-80

7. Installing the Thermoswitch
Confirm that the sensor surface of the thermoswitch is touching the surface of the upper fixing roller evenly.

For reference:
There is no need to adjust the position of the thermoswitch. If the thermistor is not touching the upper fixing roller evenly, check if the thermoswitch spring is deformed.

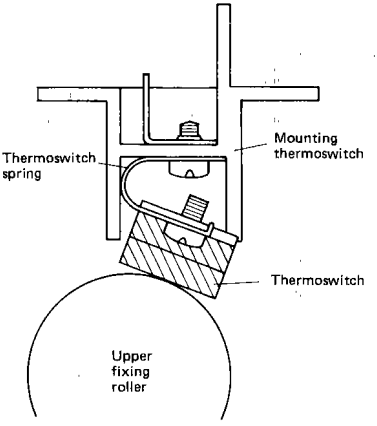


Figure 4-81

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8. Paper Guide Position

The position of the paper guide is adjusted by the paper guide mount. Consequently, when installing the paper guide, there is no need to adjust its position.

Note:
If the paper guide mount is removed, it then becomes necessary to adjust the position of the paper guide. Do not, therefore, loosen the screws of the paper guide mount. If it is necessary to loosen the screws for some reason, first mark the position of the mount with a scribe.

For reference:
Adjust the position of the paper guide by placing the fixing unit on a desk, then positioning the paper guide mount as shown in Figure 4-82.

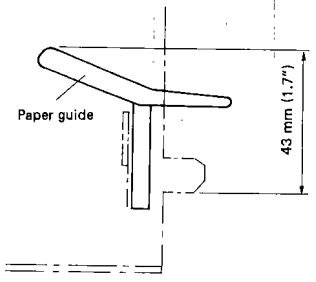
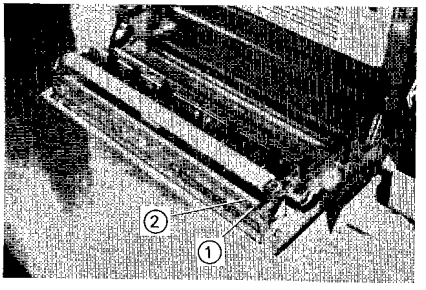


Figure 4-82

9. Removing the oil-applying roller

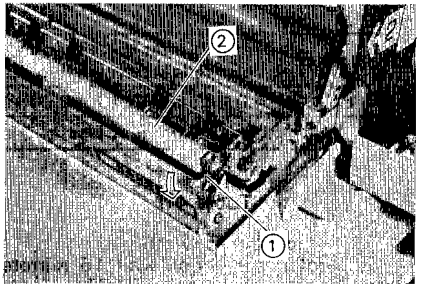
1) Open the paper delivery door.
2) Unscrew the screw and remove the holding plate.



① Screw ② Holding plate

Fiugre 4-83

3) Open the lever and remove the oil-applying roller.



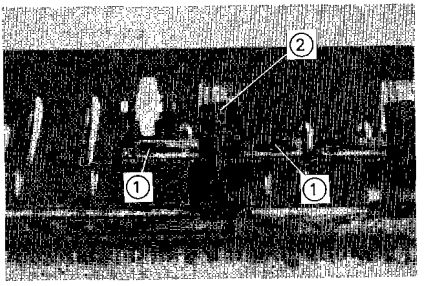
① Lever ② Oil-applying roller

Figure 4-84

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10. Removing the Upper Separation Claw

1) Open the paper delivery door.
2) Remove the oil-applying roller.
3) Unscrew the two screws and remove the upper separation claw assembly.
4) Remove the spring of the upper separation claw.



① Screw ② Upper separation claw

Figure 4-85

11. Installing the Upper

Mount the upper separation claw by reversing order of operations for removal. Note the following:

a. The projections of the upper separation claws must touch the mount in the way shown in figure 4-86.

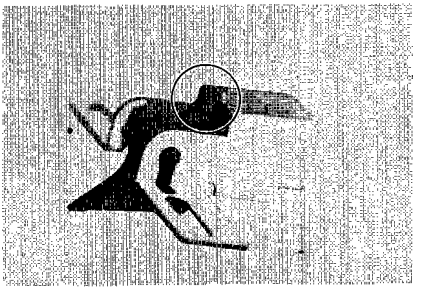


Figure 4-86

b. Install the entire upper separation claw unit to the rear.
If the upper fixing roller is damaged by the upper separation claw, move the upper fixing claw about 4 mm (0.16") toward the front.

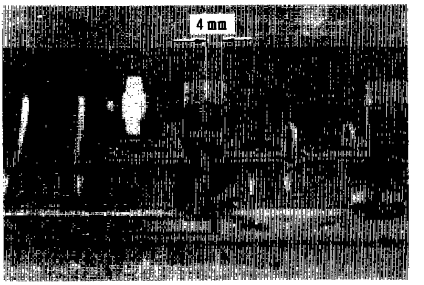
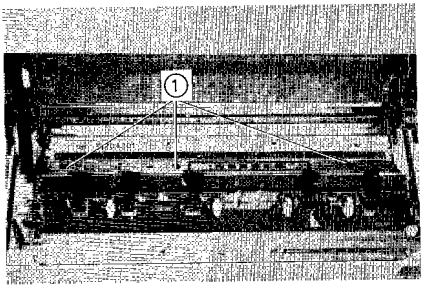


Figure 4-87

12. Removing the Lower Separation Claw

1) Remove the cover of the copy delivery unit. Open the paper delivery cover and remove the lower separation claw.

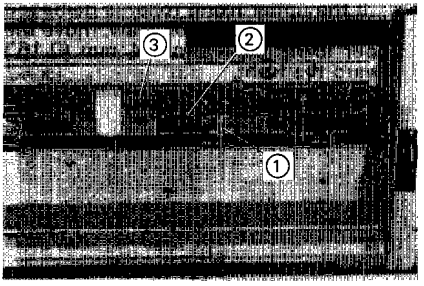


① Screw

Figure 4-88

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2) Remove the spring of the lower separation claw.



① Spring

Figure 4-89

13. Lubrication

Periodically apply heat resistant grease (CK-0227) to the following areas.

- Gear teeth (rear)
- Gears driven by fixing knob

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I. SELECTION OF INSTALLATION LOCATION

The copier should be installed in a location that meets the following requirements. It is recommended that the service technician personally inspect the customer's premises before installing the copier.

A. The location should have an electric outlet capable of supplying the voltage shown on the rating plate (±10%) and a current of at least 15A. The copier must be grounded. (A3-pin plug must be used.)
B. The ambient temperature should be within the range 7.5 to 32.5°C (45 to 90°F) and the relative humidity between 10 and 85%. The copier should not be installed near water faucets, space heaters, humidifiers, or refrigerators.
C. The copier should not be installed close to a naked flame or in a dusty area, or where it will be exposed to ammonia fumes or direct sunlight. If it must unavoidably be installed beside a sunlit window, place protective curtains across the window to block the light.
D. The room should be well ventilated.
E. Make sure that the copier is installed on a level surface with all of its feet in contact with the floor.
F. The rear of the copier should be at least 100mm (4") away from the wall, with enough space at the ends to permit unrestricted operation.

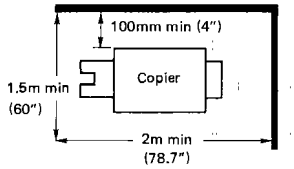


Figure 5-1

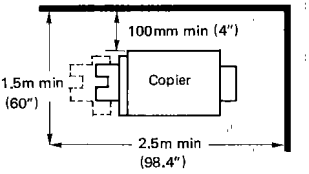


Figure 5-2 Copier with sorter installed

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II. UNPACKING AND INSTALLING THE COPIER

If the copier (in its shipping container) is moved from storage in a cold place to a warm place, let it warm up for at least one hour before unpacking it. This aboids condensation inside the copier that would affect the copy image.

No.	Procedure	Check	Remarks
1.	Unpack the copier.		
2.	Place the hands beneath the front and rear of the base plate of the copier (on skids), then raise the copier and place it on a pedestal or a desk.		When placing the copier on a pedestal, ensure that the two pins on the pedestal fit into the front and rear legs on the left side of the copier.
3.	Open the cardboard box accompanying the copier, and remove the contents.	Confirm that it contains the following. ● Paper delivery tray ● Advice book ● Advice book holder ● Cartridge ● Black toner ● Samples of paper that can be used	
4.	Remove the plastic cover, peel off the outer tape, and remove the packing material from the cassette.	Confirm that the covers are not dented, scratched, or otherwise damaged.	
5.	Unscrew the two screws of the scanner locking plate from the outside of the left cover, slide the plate to the right, then pull it forward and remove it.		See Figure 5-3
6.	Open the front cover, release the developing unit, then remove it.	Confirm that the developing cylinder is not scratched.	
7.	Remove the tape securing the transfer corona unit and remove the shock absorbing material from the feeder and the inlet of the fixing unit.		
8.	Release the feeder, remove the dummy drum from the copier, then unscrew the lens locking screws from beneath the baseplate of the lens mount.		See Figure 5-4
9.	Open the paper delivery door, then remove the left spacers (two) of the fixing rollers.		See Figure 5-5

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No.	Procedure	Check	Remarks
10.	Unpack the cartridge and remove the light blocking sheet.	When unpacking the cartridge, take care not to damage the surface of the drum.	
11.	Install the cartridge, peel off the tape from the inside cover, then secure the cartridge with the screw provided.		
12.	Move the drum cartridge cleaning lever back and forth two or three times to clean the primary corona wire.		
13.	Install the developing unit.		
14.	Remove the rear cover, and confirm that gears, sprockets, pulleys, and connectors are installed normally.		
15.	Install the ground cord below the power cord of the copier, and connect it to ground.	Objects which can be used as grounds 1) Ground pin (terminal) of power outlet 2) Copper rod buried to a depth of at least 65cm 3) Water pipe approved by the Water Board for use as a ground (Never use a gas pipe as a ground).	
16.	Change over the cassette size as desired.		See the sub-section "Changing the cassette size"
17.	Plug in the power cord and set the power switch to "I".	Confirm that the PAPER OUT/NO CASSETTE indicator is ON.	
18.	Put a loaded cassette into the copier.	● Confirm that the PAPER OUT indicator goes OFF. ● Press various combinations of copy NUMBER SELECT keys and the CLEAR key to ensure that inputs are correct.	
19.	Install the copy tray.		
20.	Raise the copyboard cover, and remove the paper and also the protective paper from the document index plate.		

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No.	Procedure	Check	Remarks
21.	When the COPY START key glows green, make two copies of a single sheet document. Before making the second copy, wait for at least five seconds after the drum has completely stopped.	● There should be no unusual noise. ● The TONER OUT indicator should flash five seconds after the end of the second copying operation.	
22.	Open the front door. Pull out the developing unit to the stop.		
23.	Shake the toner cartridge vigorously.		
24.	Raise the cover of the developing unit hopper, invert the toner cartridge and insert the two tabs at the end of the cartridge into the holes at the rear of the developing unit, lay the toner cartridge flat, and pull it forward slightly until it touches the protrusion.		
25.	Hold the toner cartridge securely and slowly pull off the seal toward the front.		
26.	Strike the top of the toner cartridge to remove any toner remaining in the toner cartridge.		
27.	Remove the toner cartridge, then place it in an empty box and discard it.		
28.	Close the hopper cover, then push in the developing unit to the rear.		
29	Swing the developing unit positioning lever clockwise.		
30.	Close the front door.		
31.	Set the power switch ON.		
32.	After the COPY START key glows green, manually feed six to ten sheets of blank A3/Ledger size paper through the copier.		
33.	Place a test sheet on the copyboard, make a copy, then check the copy image.	Copying operation should be normal. If it is not normal, make any required adjustments.	

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No.	Procedure	Check	Remarks
34.	Make copies using manual feed.	Make two-sided and overlay copies. Copying operation should be normal. If it is not, make any required adjustment.	
35.	Install all covers.		
36.	Install the advice book holder on the rear cover.		
37.	Place the advice book in the advice book holder.		
38.	Clean the outside of the copier and around it, record the necessary items on the service sheet.		

Precautions for handling the photosensitive drum after installing the copier

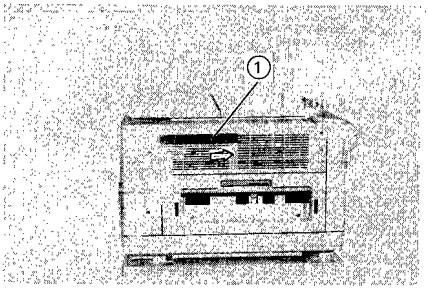
The photosensitive drum is adversely affected by strong light, so blank areas or black bands may occur if the drum is exposed to strong light for a long period. If this happens, stop the copier.

* Try to install or remove the CT unit within one minute so as to minimize exposure to light.
* Try to clear a jam within five minutes.
* When removing the drum from the copier for servicing, wrap it in a light blocking sheet (or several sheets of copy paper if a light blocking sheet is not available), and place the drum in a dark location.

Note:
If the drum is exposed to 1500 lux (typical light level in an office) for five minutes and then left for five minutes in a dark location, the drum will completely recover. Do not, however, expose the drum to direct sunlight. The illumination from the sun's rays is 10,000 lux to 30,000 lux and would permanently damage the drum.

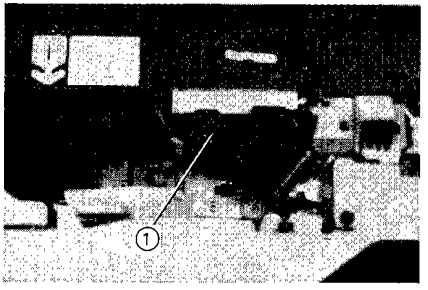
Do not touch the surface of the drum with bare hands. If the surface of the drum is touched or soiled, wipe it clean with a soft cloth to which toner has been applied. (Do not use lint-free paper.) Do not dry-wipe the drum nor use an organic solvent on it.

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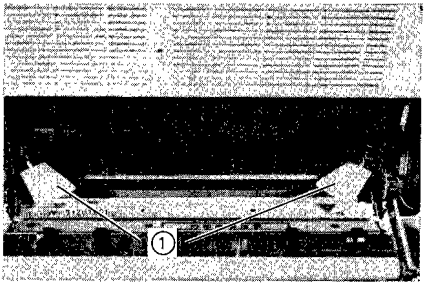
① Scanner locking plate

Figure 5-3



① Lens locking screw

Figure 5-4



① Spacers

Figure 5-5

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III PREPARATION REQUIRED FOR MOVING THE COPIER

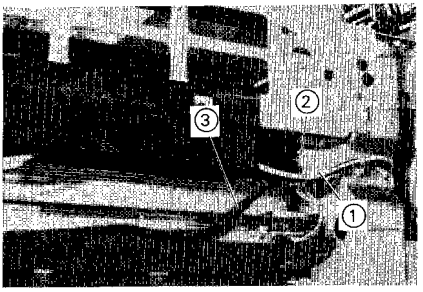
If it is necessary to relocate the copier after it has been installed, prepare it as follows.

No.	Procedure	Check	Remarks
1.	Remove the cartridge.	Place the cartridge in its box.	
2.	Secure the scanner.		
3.	Secure the transfer corona unit and the feeder release lever with tape.		
4.	Secure the front door and feeder with tape.		
5.	Place seven sheets of A3/Ledger size copy paper on the copyboard glass and secure the copyboard cover with tape.		

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IV. INSTALLATION OF THE CONTROL CARD

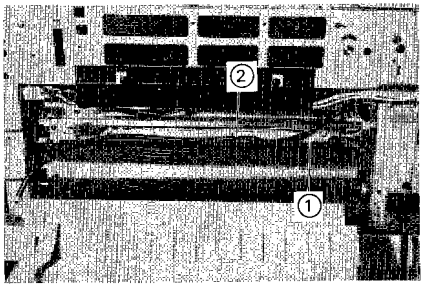
1) Turn the power switch off.
2) Remove the right cover and open the manual feed tray.
3) Insert the connector (5P) of the connector cable on the rear panel in the connector (4P) in the far side.



① Connector (5P) ③ Connector (4P)
② Connector Cable

Figure 5-6

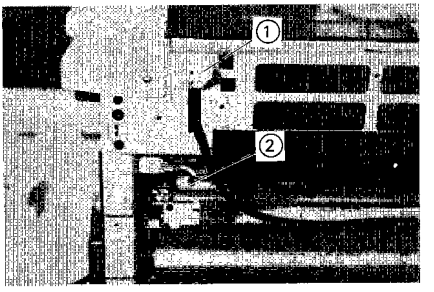
4) Fasten the relay harness to the paper guide panel with a harness band.



① Guide Panel ② Connector Cable

Figure 5-7

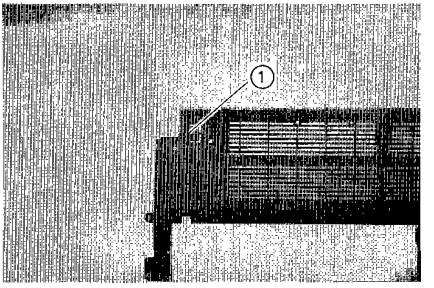
5) Remove the blanking plate on the left side panel, then set the connector as shown in Figure 5-8.



① Connector ② Connector Cable

Figure 5-8

6) Cut out the blank cover on the right cover with wire cutters, etc.

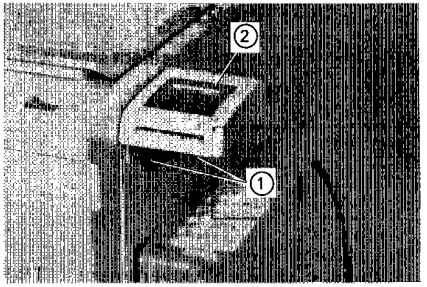


① Blank cover

Figure 5-9

7) Install the right cover on the copy machine.
8) Connect the connector on the connection cable and the connector on the control card unit.
9) Mount the control card unit on the right side panel of the copy machine with 2 screws.

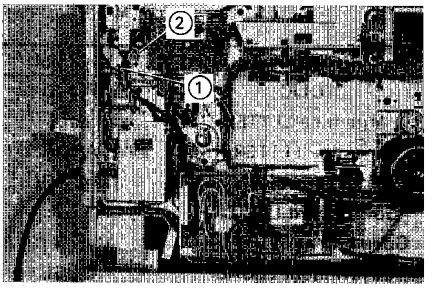
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① Screws ② Control Card Unit

Figure 5-10

10) Cut the



① Connector ② Jumper Cable

Figure 5-11

11) Turn the copy machine's power switch on and check the control card unit.

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V. PROCEDURE FOR CHANGING OVER THE CASSETTE SIZE

Cassette springs are divided into the following types, and it is possible to select sizes within the same type.

Type	Paper Size
A	A3, A4, B4, B5, 11 × 17 LTR, I
B	A4 – R, B5 – R, LTR – R, LGL, II

Paper Size I: Argentine – LTR, Government – LTR, Korean Legal Paper
Paper Size II: Argentine – LGL, Government – LGL, Argentine – LTR – R, Government – LTR-R, Foolscap Folio, Aus Foolscap, Korean Legal-R, OFICIO/Ecuador OFICIO/Bolivia OFICIO

Table 5-1

Symbols on the cassette back and corresponding paper sizes.

Paper Size	Symbol	Paper Size	Symbol
A4	A4	FOLIO	FOLIO
A4R	A4R	Argentine LETTER	Arg.
B5	B5	Argentine LETTER R	Arg. R
B5R	B5R	Argentine LEGAL	Arg. LGL
B4	B4	Government LETTER	G.
LETTER	LTR	Government LETTER R	G.R
LETTER R	LTRR	Government LEGAL	G.LGL
LEGAL	LGL	Korean Legal	K.
11 × 17	11 × 17	Korean Legal R	K.R
		OFICIO	OFC
FOOLSCAP	FLS	Ecuador OFICIO	E.
Australian FOOLSCAP	AUS.FLS	Bolivia OFICIO	BLV

Table 5-2

A3/11x17	Arg.
A4/LTR/G./K.	A4R/LTR
B4/LGL	B5R
B5/STMT	II

Table 5-3 Cassette Size Sensor Fitting Position

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Size Change Procedure

1) Remove the screw fastening the rear control plate on the back end of the cassette.

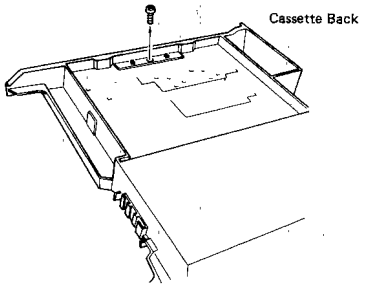


Figure 5-15

2) Position the rear control plate at the desired paper size (see Table 5-) in accordance with the markings on the back side of the cassette.
BA/A4-R/LGL./ARG.R/FLS/G.R/FOIO G,LGL/AUS.FLS/BLV./ARG,LGL/ E.OFC
The above types of paper require the use of 2 rear control plates. Setting positions should be according to the markings on the back of the cassette.

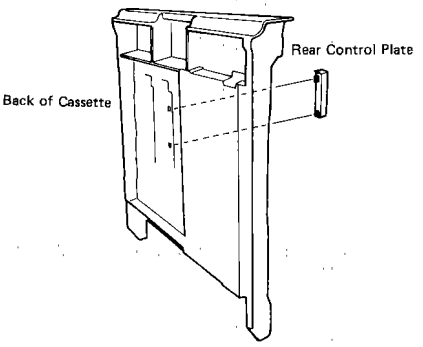


Figure 5-16

3) Fasten the control plate with 2 screws (M4 × 6).

Follow the procedure from step 7 when changing the type of springs used.

4) Remove the 2 screws holding the paper size dividing plate.

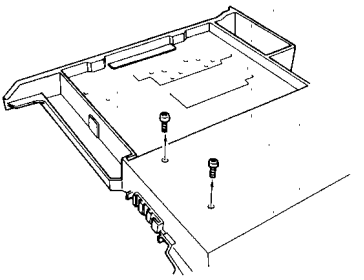


Figure 5-17

5) Slide the paper size dividing plate, together with the springs, to the position indicated by the markings on the back of the cassette for the desired paper size.

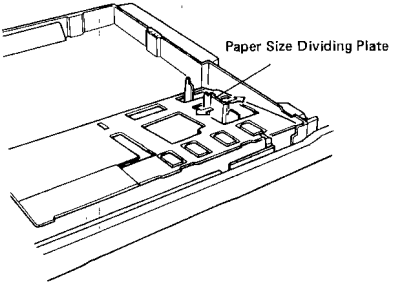


Figure 5-18

6) Fasten the paper size dividing plate with the 2 screws removed in procedure 4.
Proceed to step 13) after the above operation.
7) Remove the 2 pieces of stopper rubber on the center plate.

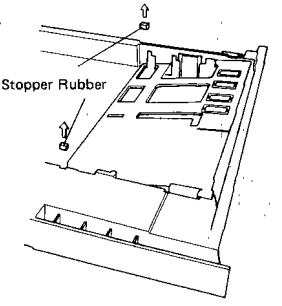


Figure 5-19

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8) Remove the center plate and springs.

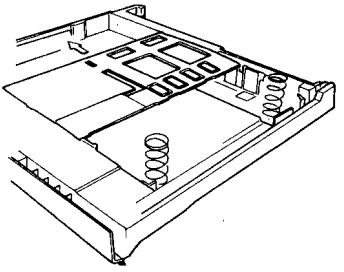


Figure 5-20

9) Remove the 2 screws holding the paper size dividing plate from the back of the cassette.

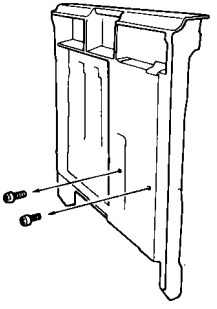


Figure 5-21

10) Slide the paper size dividing plate to the position indicated by the markings on the back of the cassette for the desired paper size, then fasten it in place with the 2 screws removed in step 9).
11) Change the springs according to the specifications in the following table.

Paper Size	Spring Color
A4/A3/B4/B5/ 11 × 17/LTR/ARG/ G.K.	Blue
A4R/B5R/LTR-R LGL/FLS/ARG-R FOLIO/AUS.FLS G-R/G.LGL/KR	Yellow

Table 5-4

12) Set the center plate and install the pieces of stopper rubber.

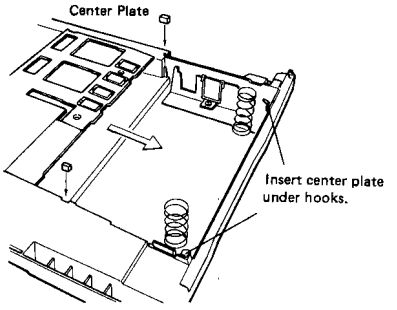


Figure 5-22

Check
- Are the pieces of stopper rubber installed correctly
- Is the spring on the far side set correctly in the spring seat on the bottom of the center plate

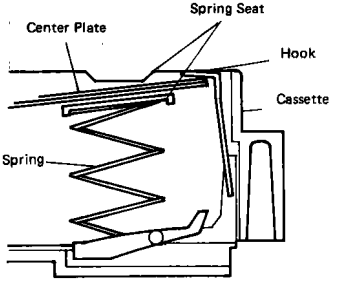


Figure 5-23

13) Set cassette size sensor fittings as shown in Table 5-3.
14)

Government LTR/Korean Legal, Korean Legal R
Follow the procedure below when setting cassettes with the above paper sizes.
For paper sizes other than those above, proceed to step 17).

15) Open the manual feed tray, remove the 2 front pins, then remove the V guide. (See Chapter 4.)

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16) Remove the paper feed roller as shown below.
- In the case of Government LTR and Korean Legal, remove paper feed roller 1 shown in Figure 5-24.
- In the case of Korean Legal-R, remove paper feed roller 3 in Figure 5-24.

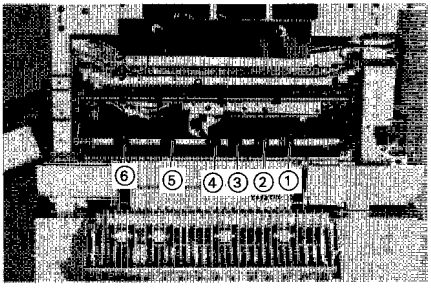
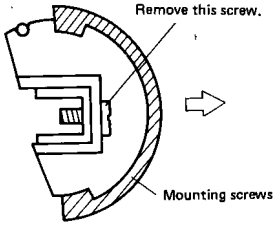


Figure 5-24



Note:
Removing the paper feed roller.
Remove this screw.

Figure 5-25

17) Install the U-guide and inner cover following the reverse order of the procedure for removal.
18) Affix the size label to the cassette.
* If a size label for the paper size used is not available, write the correct paper size on a blank label using a magic marker and affix it.

VI. PROCEDURE FOR INSTALLING THE DOCUMENT REST TRAY

1) Install the two stepped screws (M4 × 5) in the right side plate of the copier.

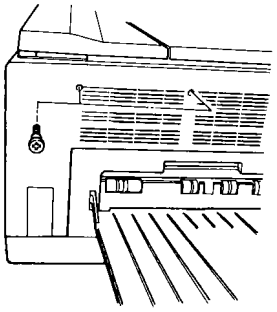


Figure 5-23

2) Hook the document rest tray onto the stepped screws.

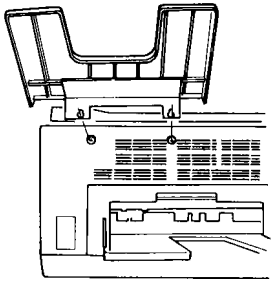


Figure 5-24

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I. PARTS TO BE REPLACED PERIODICALLY

To maintain the copier at its peak performance, the parts listed in the following chart must be replaced periodically. Although the deterioration of a part may not be visible, it can seriously hamper the performance of the copier if not replaced on schedule.

Parts should be replaced during the regular service visit that is closest to the end of the service life of the part.

No.	Description	Part No.	Quantity	Replacement	Remarks
1	Ozone filter	FA5-1748-000	1	–	1 year
2	Static charge eliminator	FF1-9438-000	1	50,000	
3	Primary corona wire	FY3-0030-000	1	100,000	100V
	Transfer corona unit	FY3-0040-000	1	100,000	115/220/240V
4	Side seal (developing unit)	FA5-1769-000	2	100,000	
5	Front developing cylinder spacer roller	FA5-1766-000	1	100,000	
6	Rear developing cylinder spacer roller	FA5-1767-000	1	100,000	

Note:
The above values are estimates and are subject to change depending on experience.

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II. EXPECTED SERVICE LIVES OF PARTS AND CONSUMABLES

The values shown in the table below indicate the expected average life (number of copies) of parts which may require replacement at least once during the warranty period due to deterioration or damage but which can be simply replaced to restore the performance of the copier.

No.	Description	Part No.	Quantity	Service life (number of copies)	Remarks
1	Oil-applying roller (fixing unit)	FA5-1952-000	1	20,000	
2	Scanner drive cable	FA5-2073-000	1	100,000	
3	Scanning lamp (scanner)	FH7-3113-000	1	100,000	100/115V
		FH7-3114-000	1	100,000	220/240V
4	Paper pick-up roller (pick-up unit)	FF2-0017-000	6	100,000	
5	Side scraper (developing unit)	FA5-1768-000	2	100,000	
6	Upper fixing roller bearing (fixing unit)	FS1-1240-000	2	100,000	
7	Preconditioning exposure lamp	FH7-3116-000	8	200,000	
8	Upper fixing roller (fixing unit)	FA5-1916-000	1	200,000	
9	Lower fixing roller (fixing unit)	FA5-1917-000	1	200,000	
10	Upper separation claw (fixing unit)	FB1-0301-000	5	200,000	
11	Lower separation claw (fixing unit)	FA2-9037-000	5	200,000	

Note:
The above values are estimates and are subject to change depending on experience.

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III. BASIC PROCEDURE FOR PERIODIC SERVICING

Notes:
1. Perform periodic servicing after every 10,000 copies, as a general rule.
2. Before making a service call, check the service log and take along any replacement parts that are likely to be needed.

No.	Procedure	Check	Remarks
1	Note the operator's comments.	Condition of the copier	
2	Record the counter reading	Number of miscopies	
3	Make DIRECT, REDUCTION, ENLARGEMENT, and two-page overlay test copies.	a. Image density b. Dirty background c. Clarity of letters d. Leading edge blank area e. Left and right margins f. Fixing, synchronizing, and soiling of back g. Unusual noise h. Operation of counter	Standard: 2.0±1.5mm (DIRECT) Standard: 10.0±2.0mm (DIRECT), front side
4	Clean the corona units.		Wipe dry using lint-free paper then clean using alcohol.
5	Clean separation and feeder units.		
6	Clean fixing and delivery units. * Paper guide plate * Separation claws (upper and lower)		Alcohol
7	Perform the periodic servicing appropriate to the number of copies (see page 6-4).		
8	Clean the copyboard cover and the copyboard glass.		
9	Check the amount of waste toner.		
10	Make test copies.		
11	Make sample copies.		
12	Select sample copies to keep for the customer record. Clean up around the copier.		
13	Record the final counter value.		
14	Fill in the service sheet and check out with the person in charge.		

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IV. PERIODIC SERVICING SCHEDULE

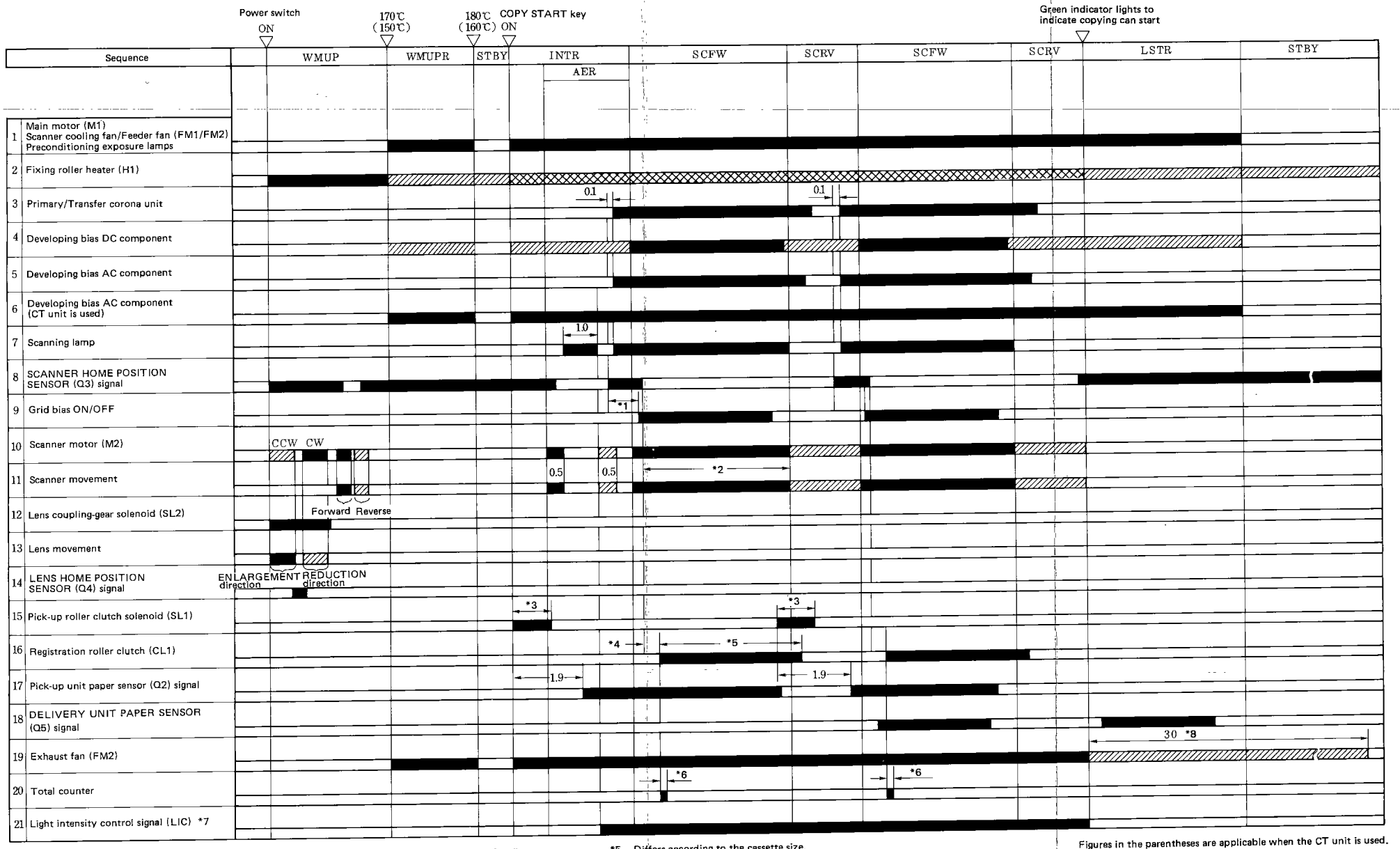
Note:
Do not use solvents or oils other than those specified.

△: Clean ●: Replace ×: Lubricate □: Adjust ◎: Check

Unit	Description	Periodic servicing				Remarks
		Every 10,000 copies	Every 20,000 copies	Every 50,000 copies	Every 100,000 copies	
Externals	Copyboard glass	△				Clean with alcohol.
	Ozone filter					Replace every year.
Scanner drive unit	Scanner rails		×			Clean with alcohol then apply high-viscosity lubricating oil
Feeder	Transfer guide	△				Damp cloth
	Feeder belt	△				
	Feeder frame	△				
Optical path	Scanning lamp reflector		△			Clean with a blower brush. If very dirty, clean with alcohol. Clean mirrors 5 and 6 with mirror cleaning tool.
	Scanning lamp side reflector		△			
	Mirrors 1 to 6		△			
	Lens		△			
	Dustproofing glass		△			
Corona units	Primary corona wire	△			●	Dry wipe using lint-free paper, then clean using alcohol.
	Transfer corona wire	△			●	
	Static charge eliminator	△		●		Damp cloth
Developing unit	Developing rollers (front and rear)		△		●	Clean with alcohol.
	Side seals (front and rear)				●	
Fixing unit	Upper fixing roller		△			
	Lower fixing roller		△			
	Paper guide plate	△				Clean with MEK.
	Separation claws (upper and lower)	△				

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Continnous run of two copies

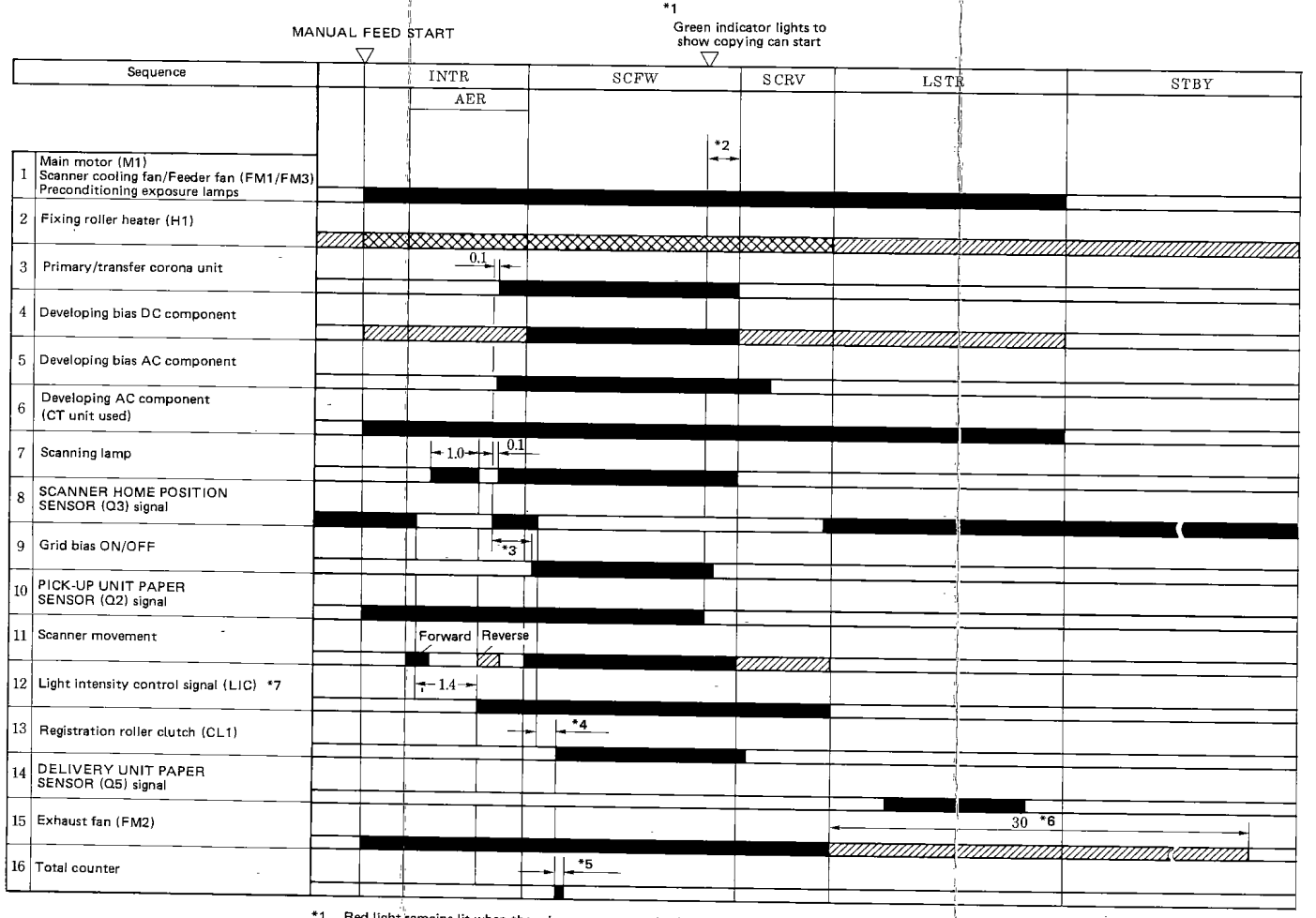


*1. Differs according to the reproduction ratio (approx. 0.58 sec. for direct copying).
*2. Differs according to the cassette size and reproduction ratio.
*3. Differs according to the cassette size (see Chapter 3, pages 3 to 27).
*4. Differs according to the reproduction ratio and VR301 adjustment.
*5. Differs according to the cassette size.
*6. Counter does not function during the use of CT unit with 100 V machines.
*7. The signal is generated only during the use of CT unit and increases the intensity of scanning lamp.
*8. 120 sec. during the use of CT unit.

Figures in the parentheses are applicable when the CT unit is used.
CCW stands for counter-clockwise
CW stands for clockwise

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MANUAL FEED



*1. Red light remains lit when there is no copy paper in the cassette.
*2. Approx. 0.58 sec. for direct copying (the figure differs according to the reproduction ratio).
*3. Differs according to the reproduction ratio and VR302 adjustment.
*4. Differs according to the reproduction ratio and VR301 adjustment.
*5. Counter does not function during the use of CT unit with 100 V machines.
*6. 120 sec. during the use of CT unit.
*7. The signal is generated only during the use of CT unit and increases the intensity of scanning lamp.

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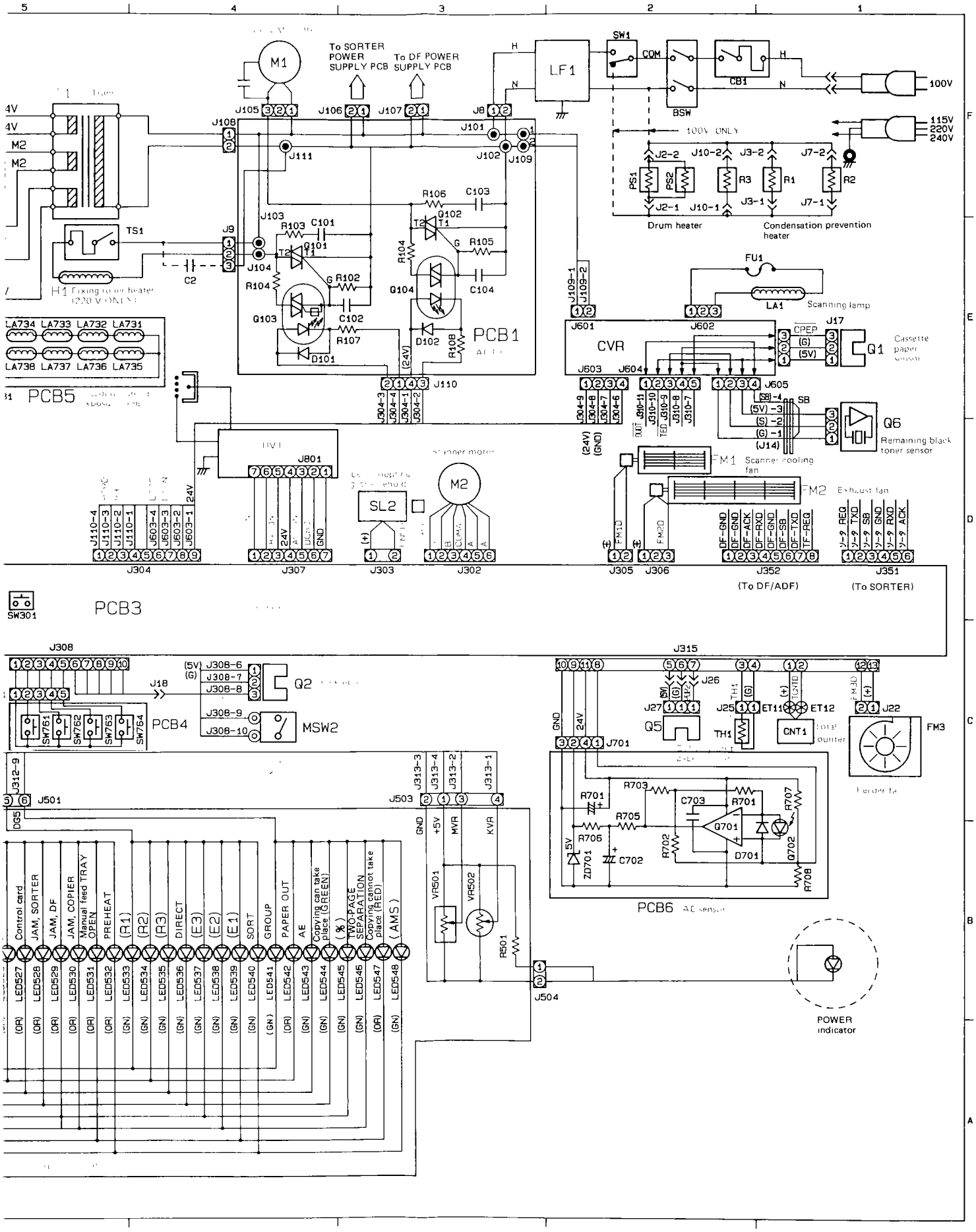
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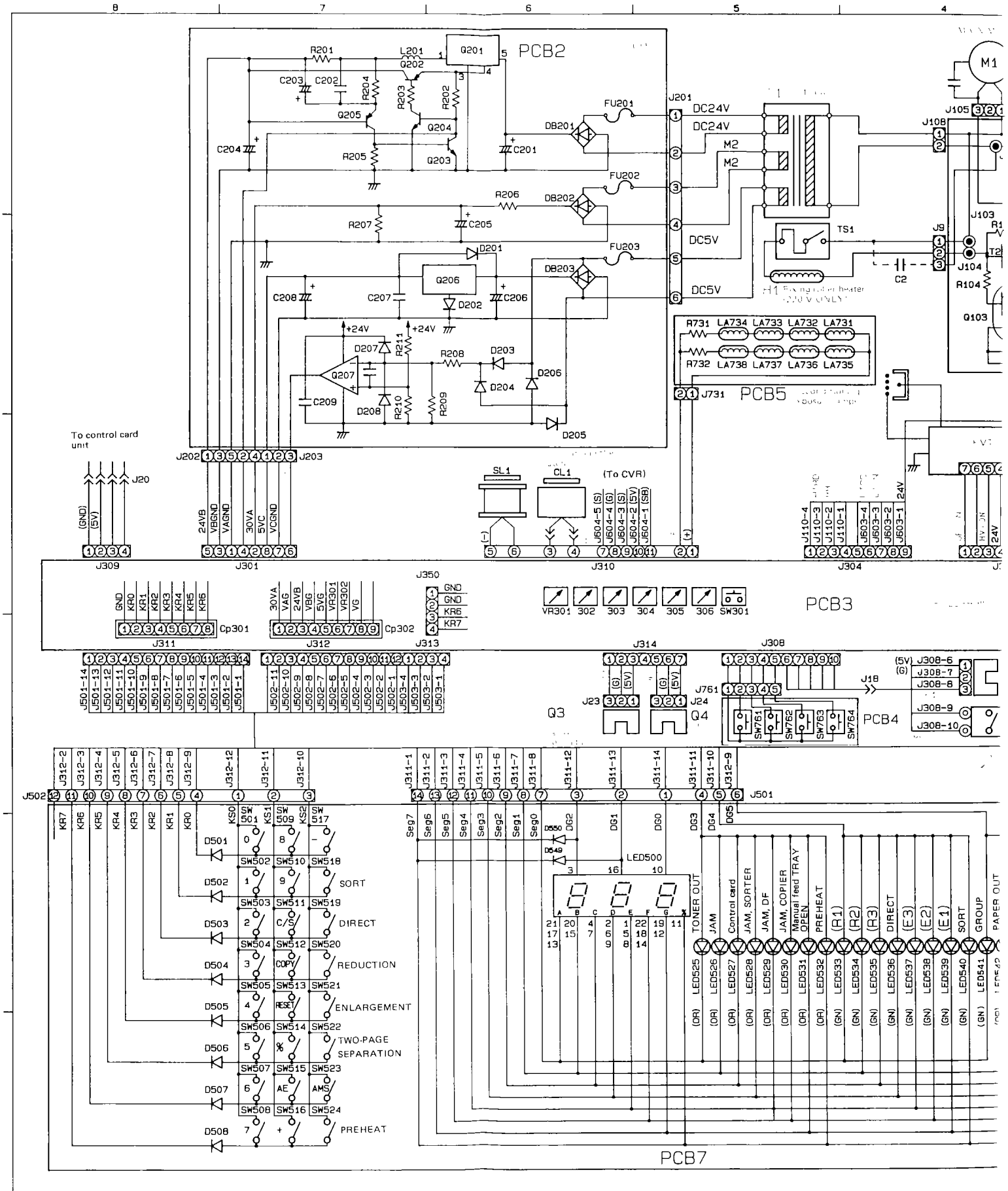
II. LIST OF SIGNALS/COMMANDS

SIGNALS/COMMANDS	
ACBON	AC BIAS ON command
AE	AE SENSOR OUTPUT signal (analog)
AE-BIAS	AE SENSOR BIAS signal (analog)
CCNTD	CONTROL COUNTER DRIVE command
CCNNT	CONTROL CARD CONNECT signal
CDP	COLOR CARTRIDGE DETECTION signal
CPEP	CASSETTE PAPER EMPTY signal
CSIN	CASSETTE IN signal
CSZ0	CASSETTE SIZE signal 0
CSZ1	CASSETTE SIZE signal 1
CSZ2	CASSETTE SIZE signal 2
DCBC	DC BIAS CONTROL command
DCOFF	DC 24V OFF command
FM1D	FAN MOTOR 1 DRIVE command
FM2D	FAN MOTOR 2 DRIVE command
FM3D	FAN MOTOR 3 DRIVE command
GRBC	GRID BIAS CONTROL signal
GRDON	GRID ON signal
HTRD	HEATER DRIVE command
HVTON	HVTON command
LAON	LAMP ON command
LHP	LENS HOME POSITION signal
LIC	LIGHT INTENSITY CONTROL command
LNSD	LENS SOLENOID DRIVE command
PDP1	PAPER DETECTION signal 1 (Q2)
PDP2	PAPER DETECTION signal 2 (Q5)
PEXP	PRE-CONDITIONING EXPOSURE LAMP LINT command
PUSD	PICK-UP ROLLER CLUTCH SOLENOID DRIVE command
RGCD	REGISTRATION ROLLER CLUTCH SOLENOID DRIVE command
SCHP	SCANNER HOME POSITION signal
TCNTD	TOTAL COUNTER DRIVE command
TEP	TONER EMPTY signal
TH1	FIXING ROLLER SURFACE TEMPERATURE signal (analog)
ZXDP	ZERO CROSS DETECTION signal

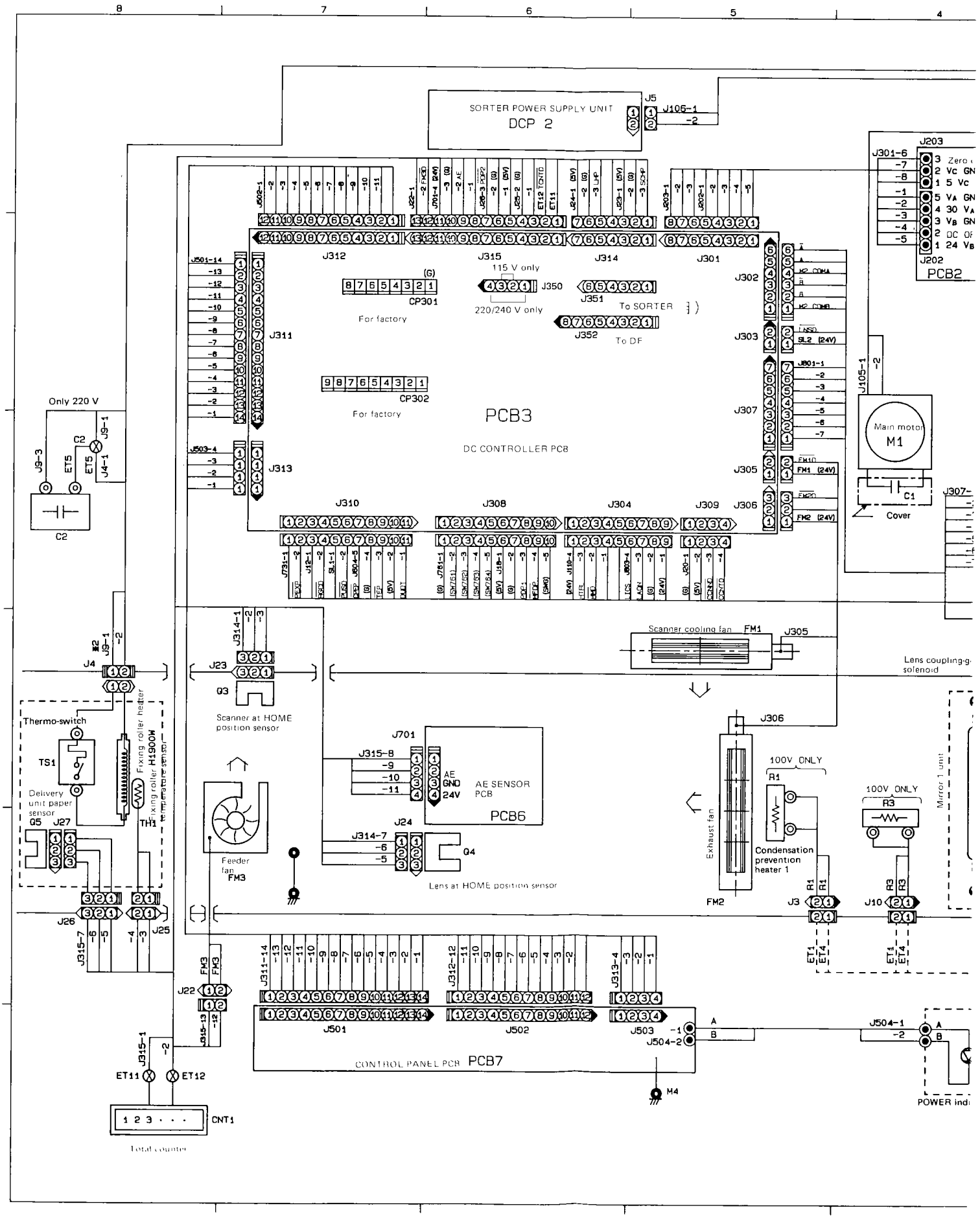
ABBREVIATIONS	
AER	AE ROTATION
INTR	INITIAL ROTATION
LSTR	LAST ROTATION
SCFW	SCANNER FORWARD
SCRV	SCANNER REVERSE
STBY	STANDBY
WMUP	WARM UP
WMUPR	WARM UP ROTATION

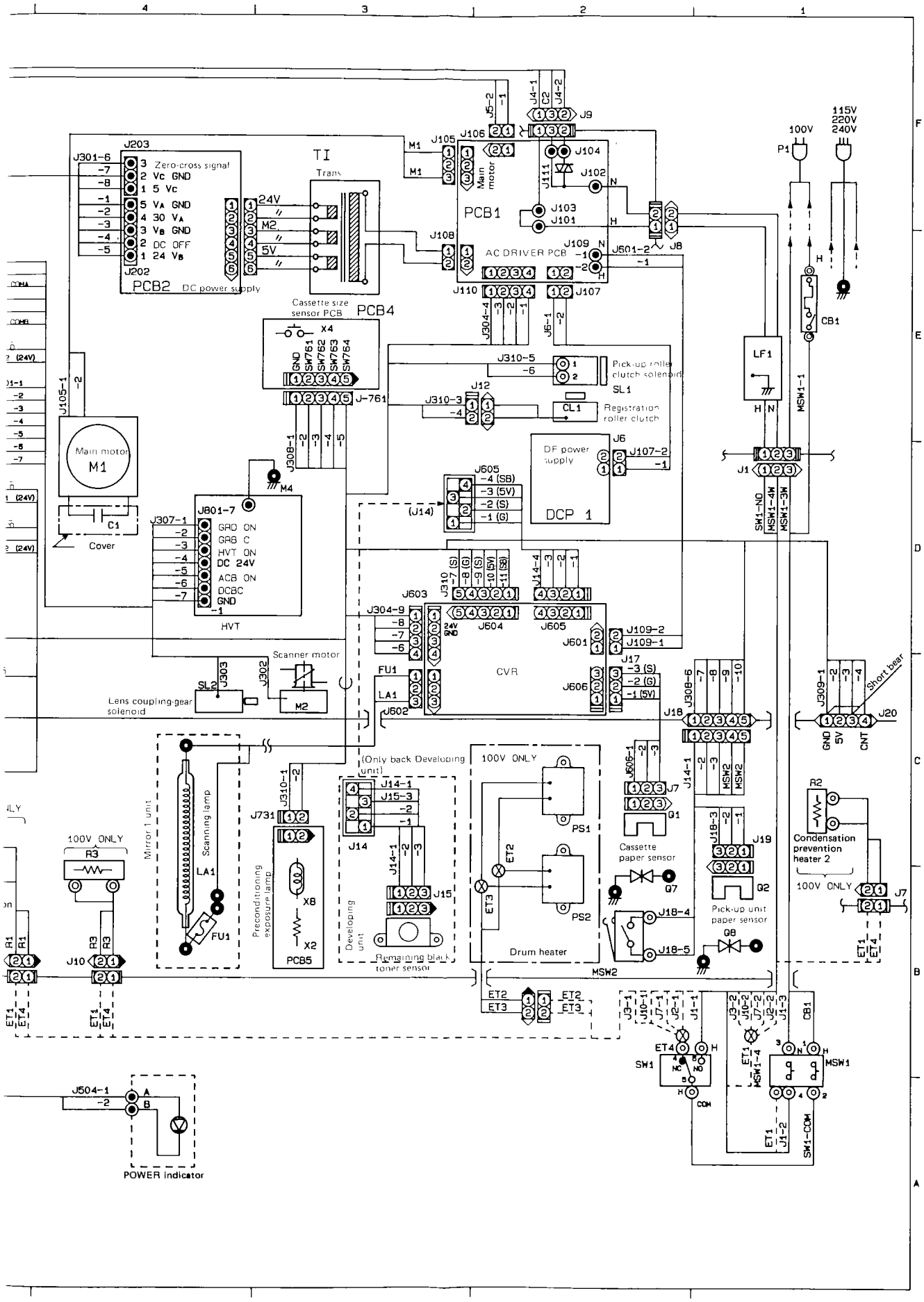
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M1
To SORTER POWER SUPPLY PCB
To DF POWER SUPPLY PCB
LF1
SW1
CB1
BSW
100V
115V
220V
240V
100V ONLY
Drum heater
Condensation prevention heater
PS1
PS2
R1
R2
R3
TS1
H1 Fixing roller heater
PCB1
PCB5
CVR
Q1
Cassette paper sensor
FU1
LA1
Scanning lamp
Q6
Remaining black toner sensor
FM1 Scanner cooling fan
FM2 Exhaust fan
SL2
M2
Scanner motor
PCB3
SW301
PCB4
MSW2
Q2
Q5
PCB6
FM3
Feeder fan
CNT1
POWER indicator
Control card
JAM, SORTER
JAM, DF
JAM, COPIER
Manual feed TRAY OPEN
PREHEAT
DIRECT
SORT
GROUP
PAPER OUT
AE
TWO-PAGE SEPARATION
(AMS)
VR501
VR502
J304
J307
J303
J302
J305
J306
J352
J351
(To DF/ADF)
(To SORTER)
J501
J503
J504
J701
J801


PCB2
PCB5
PCB3
PCB4
PCB7
M1
TS1
SL1
CL1
(To CVR)
To control card unit
J20
J309
J301
J310
J304
J731
J202
J203
J201
J105
J108
J103
J104
J9
R104
Q103
C2
R1
T2
H1
DC24V
DC5V
FU201
FU202
FU203
DB201
DB202
DB203
R731 LA734 LA733 LA732 LA731
R732 LA738 LA737 LA736 LA735
J350
J311
J312
J313
J314
J308
J761
J18
J23
J24
Q3
Q4
SW761
SW762
SW763
SW764
VR301 302 303 304 305 306 SW301
Cp301
Cp302
J502
J501
LED500
SORT
DIRECT
REDUCTION
ENLARGEMENT
TWO-PAGE SEPARATION
PREHEAT
TONER OUT
JAM
Control card
JAM, SORTER
JAM, DF
JAM, COPIER
Manual feed TRAY OPEN
PREHEAT
(R1)
(R2)
(R3)
DIRECT
(E3)
(E2)
(E1)
SORT
GROUP
PAPER OUT

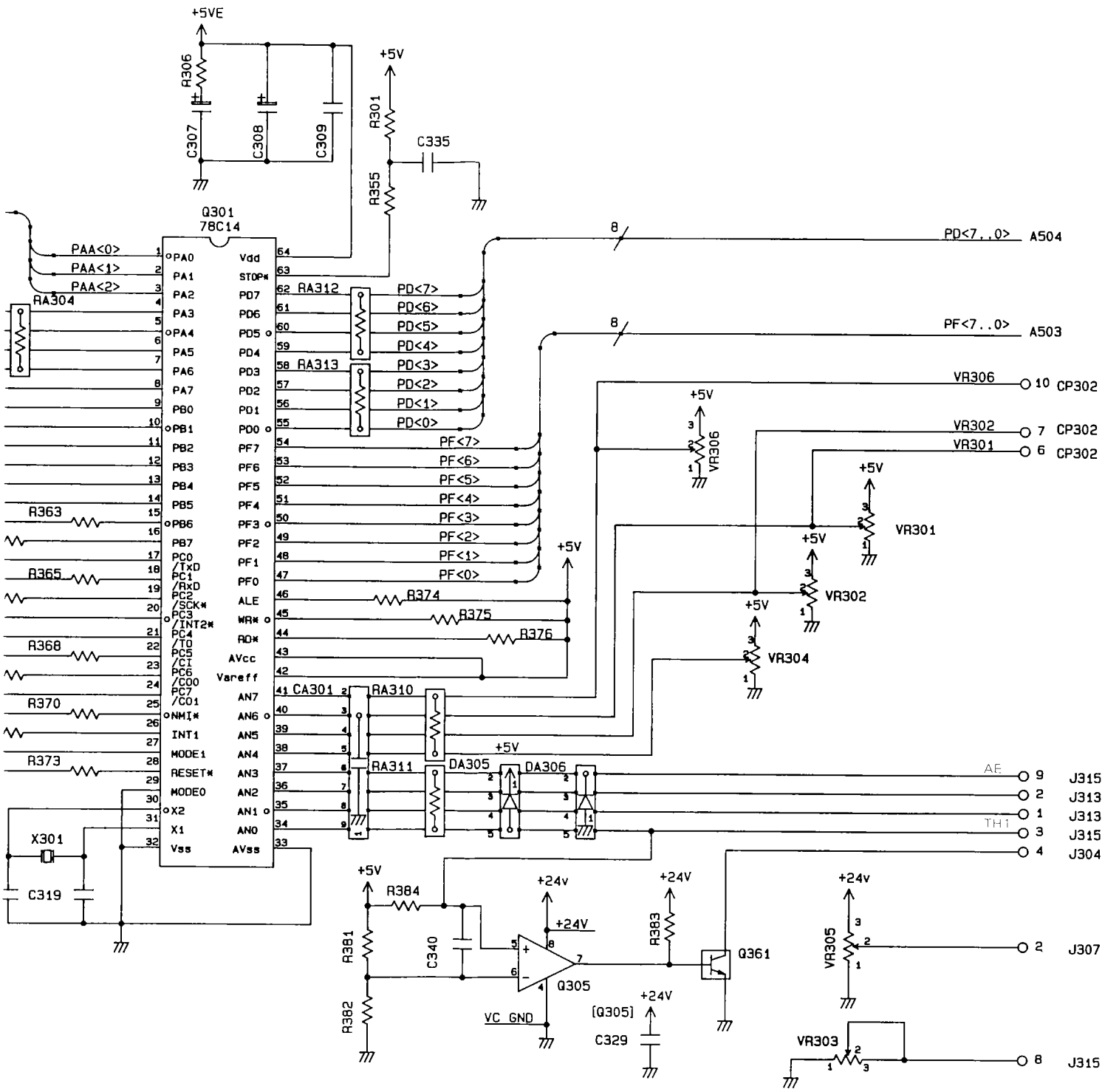
IV. WIRING DIAGRAM

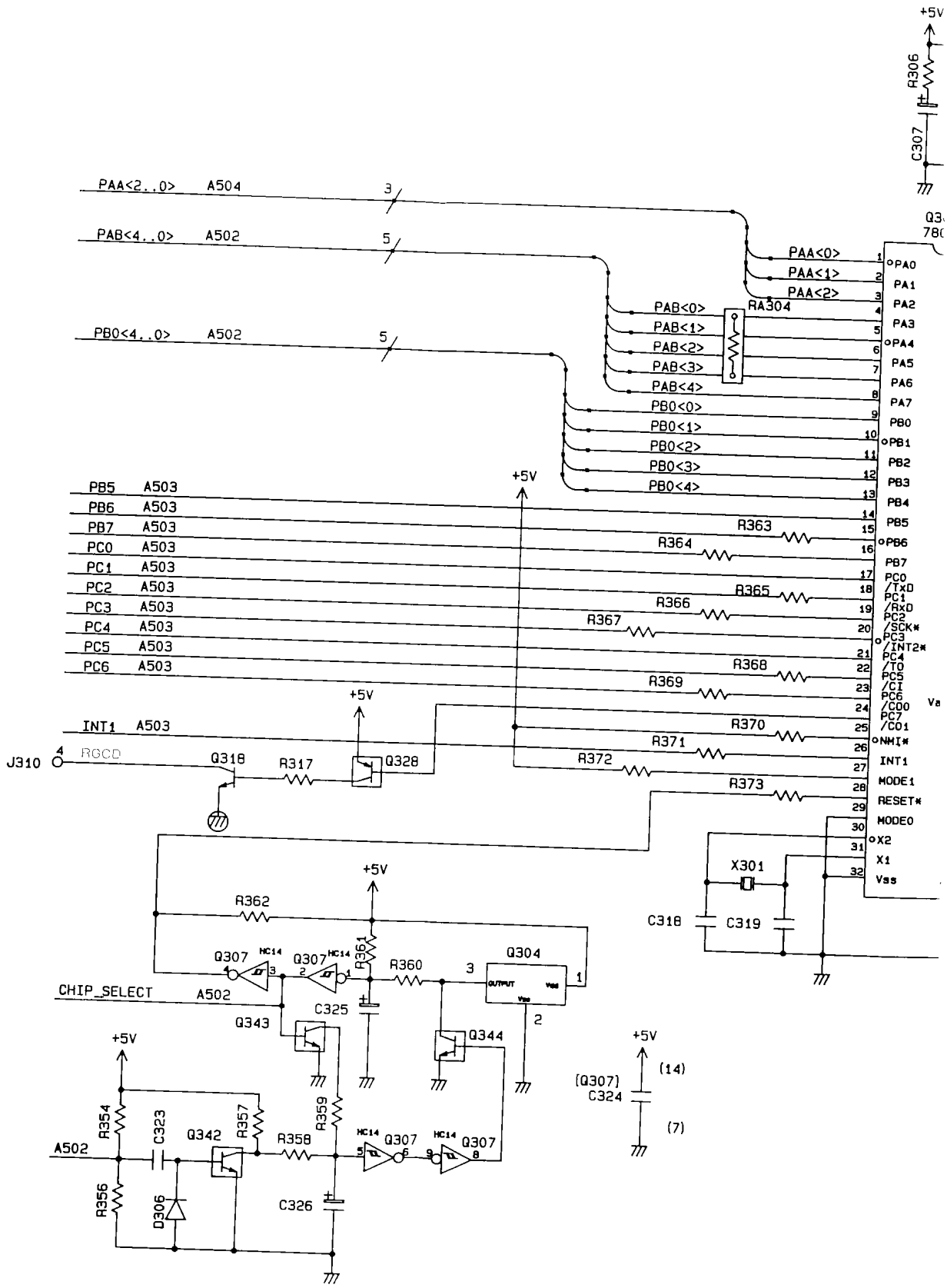




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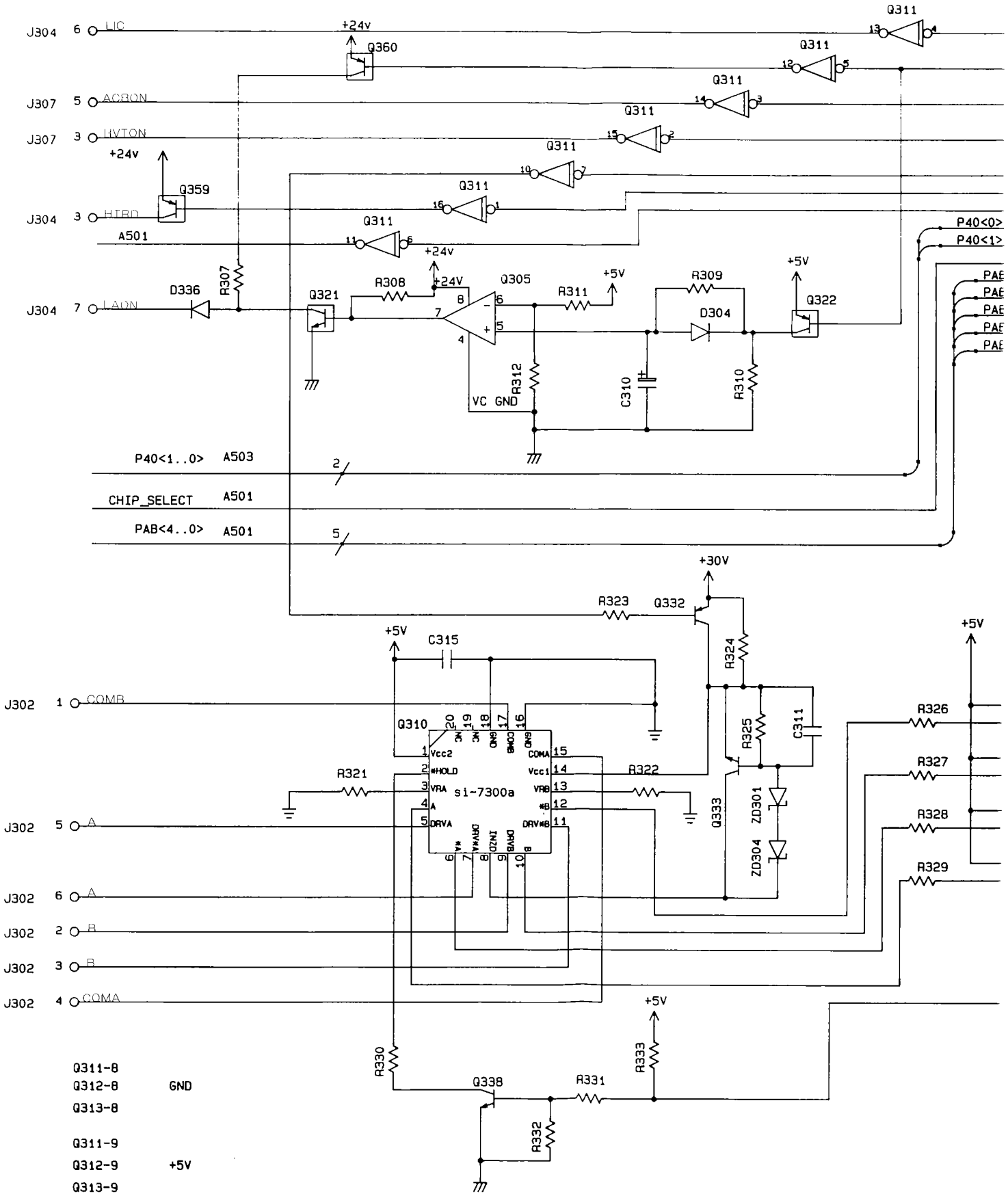

+5VE
R306
C307
C308
C309
+5V
R301
C335
R355
Q301
78C14
PAA<0>
PAA<1>
PAA<2>
RA304
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PC0 /TxD
PC1 /RxD
PC2 /SCK*
PC3 /INT2*
PC4 /T0
PC5 /CI
PC6 /CO0
PC7 /CO1
NMI*
INT1
MODE1
RESET*
MODE0
X2
X1
Vss
Vdd
STOP*
PD7
PD6
PD5
PD4
PD3
PD2
PD1
PD0
PF7
PF6
PF5
PF4
PF3
PF2
PF1
PF0
ALE
WR*
RD*
AVcc
Vareff
AN7
AN6
AN5
AN4
AN3
AN2
AN1
AN0
AVss
RA312
RA313
PD<7>
PD<6>
PD<5>
PD<4>
PD<3>
PD<2>
PD<1>
PD<0>
PD<7..0>
A504
PF<7>
PF<6>
PF<5>
PF<4>
PF<3>
PF<2>
PF<1>
PF<0>
PF<7..0>
A503
R363
R365
R368
R370
R373
R374
R375
R376
VR306
VR302
VR301
VR304
CP302
CA301
RA310
RA311
DA305
DA306
AE
TH1
J315
J313
J304
X301
C319
R384
R381
R382
C340
R383
Q305
Q361
VC GND
[Q305]
C329
VR305
VR303
J307
J315

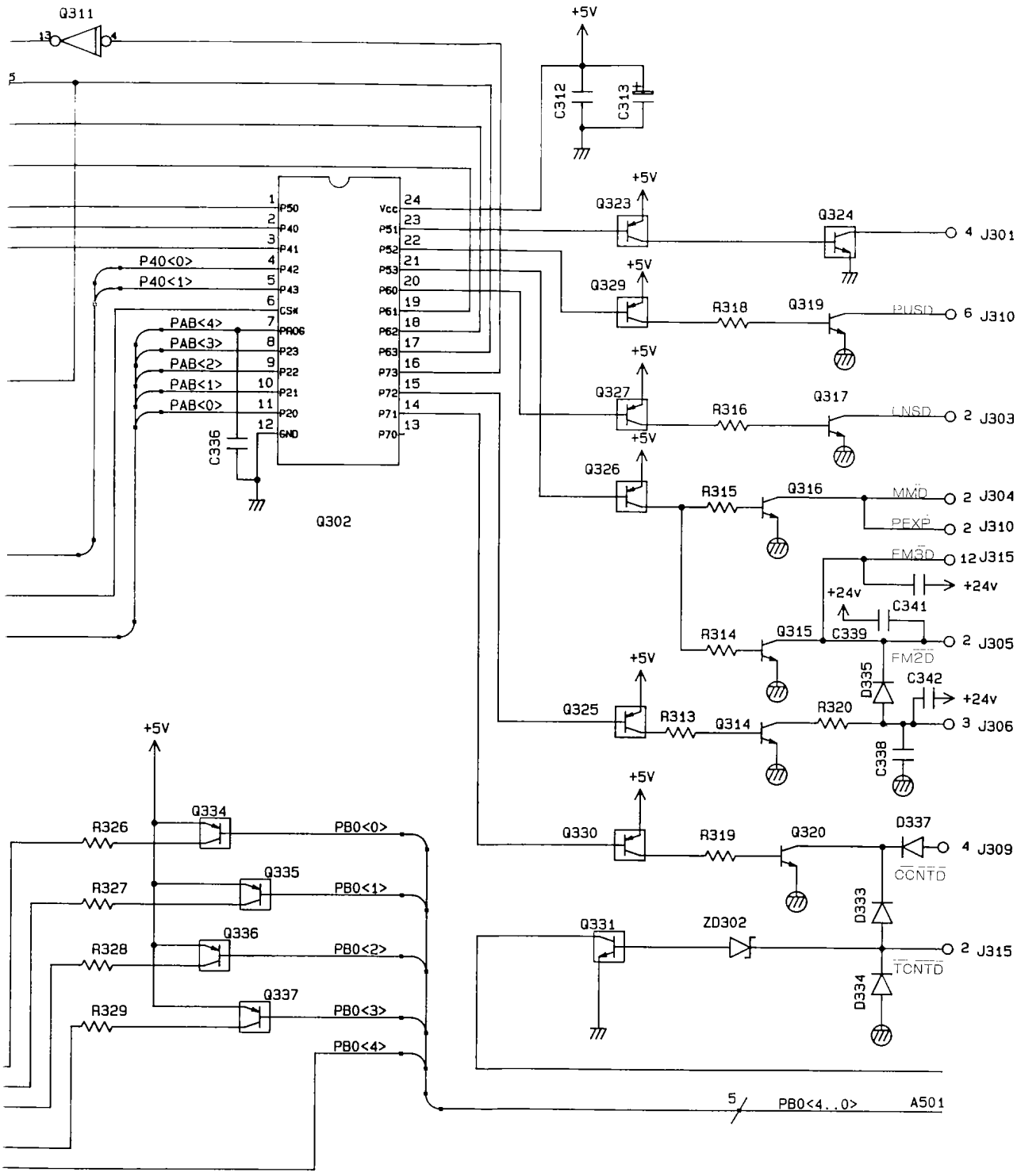


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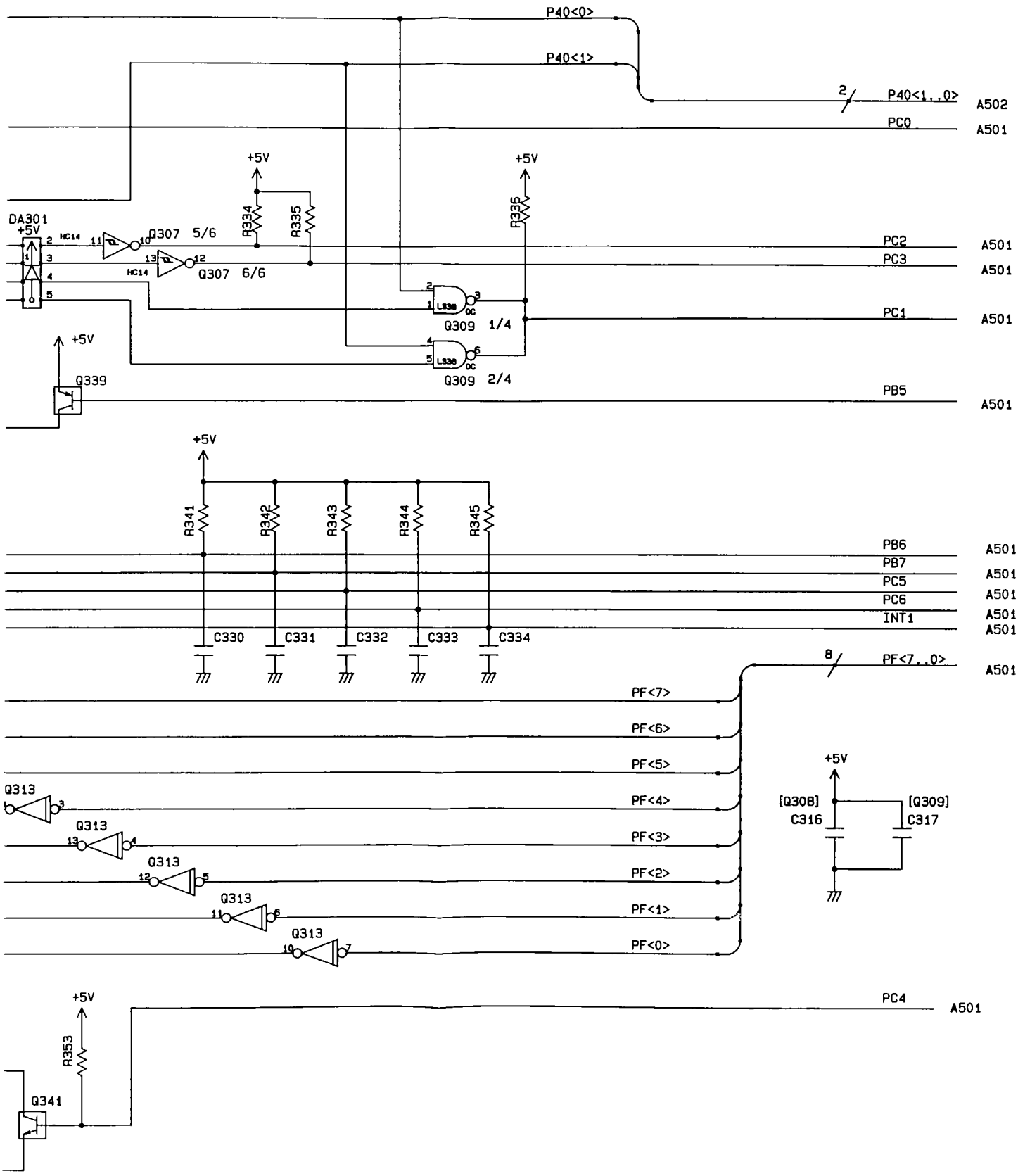
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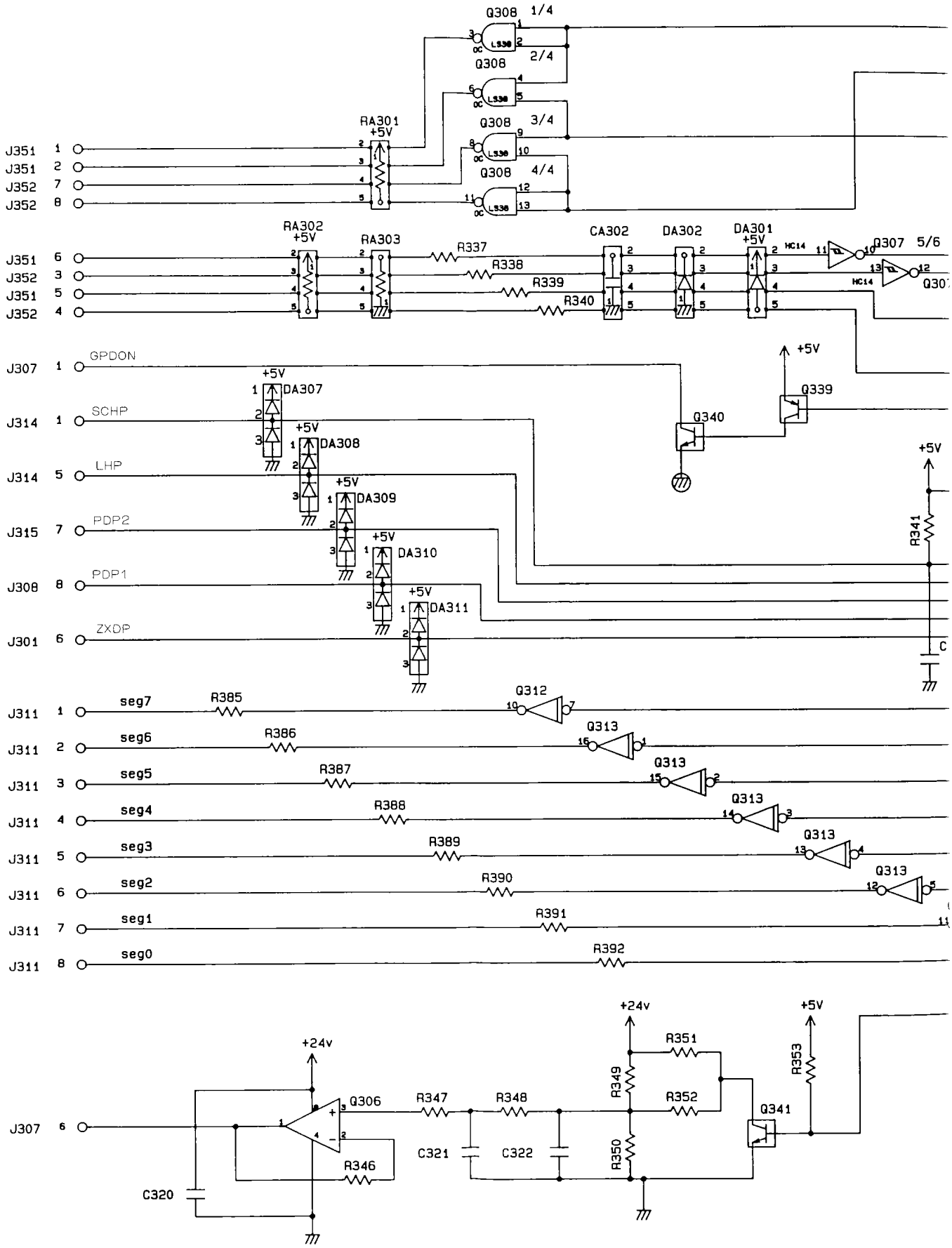
V. DC CONTROLLER PCB (A-502)





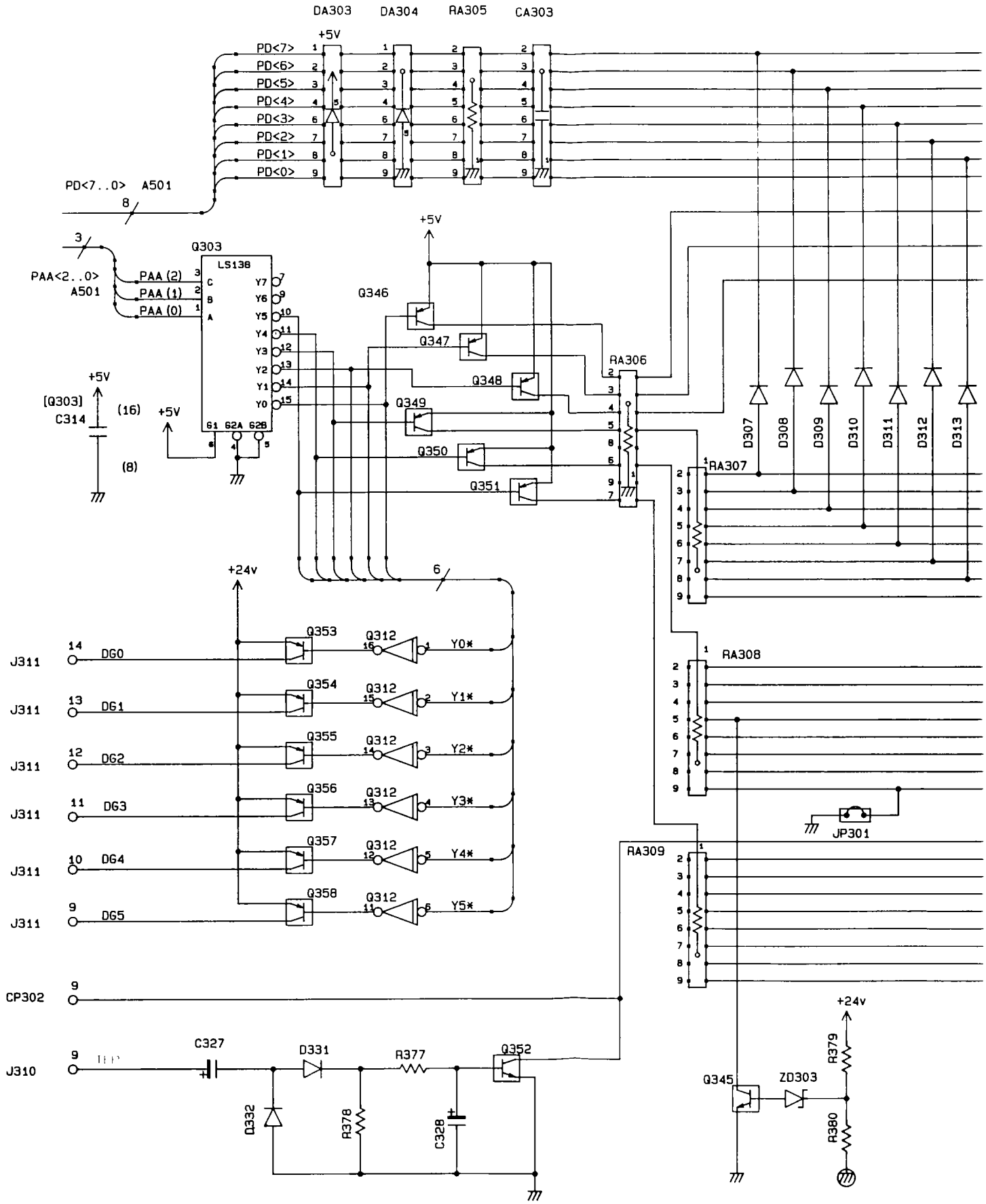
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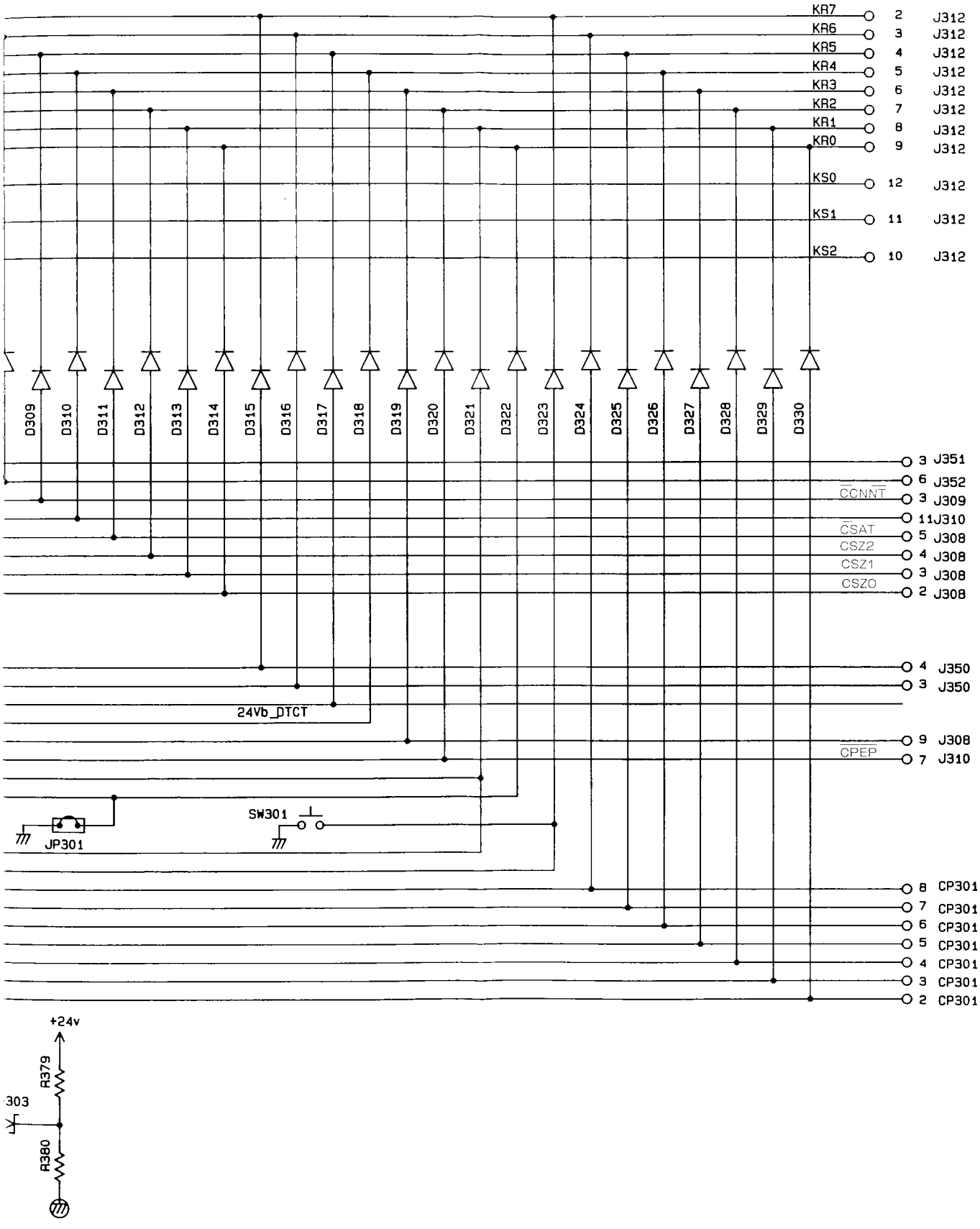

P40<0>
P40<1>
2
P40<1,.0>
A502
PC0
A501
+5V
R334
R335
R336
DA301
HC14
Q307 5/6
Q307 6/6
PC2
A501
PC3
A501
Q309 1/4
PC1
A501
Q309 2/4
Q339
PB5
A501
R341
R342
R343
R344
R345
PB6
A501
PB7
A501
PC5
A501
PC6
A501
INT1
A501
C330
C331
C332
C333
C334
8
PF<7,.0>
A501
PF<7>
PF<6>
PF<5>
PF<4>
PF<3>
PF<2>
PF<1>
PF<0>
Q313
[Q308]
C316
[Q309]
C317
R353
Q341
PC4
A501



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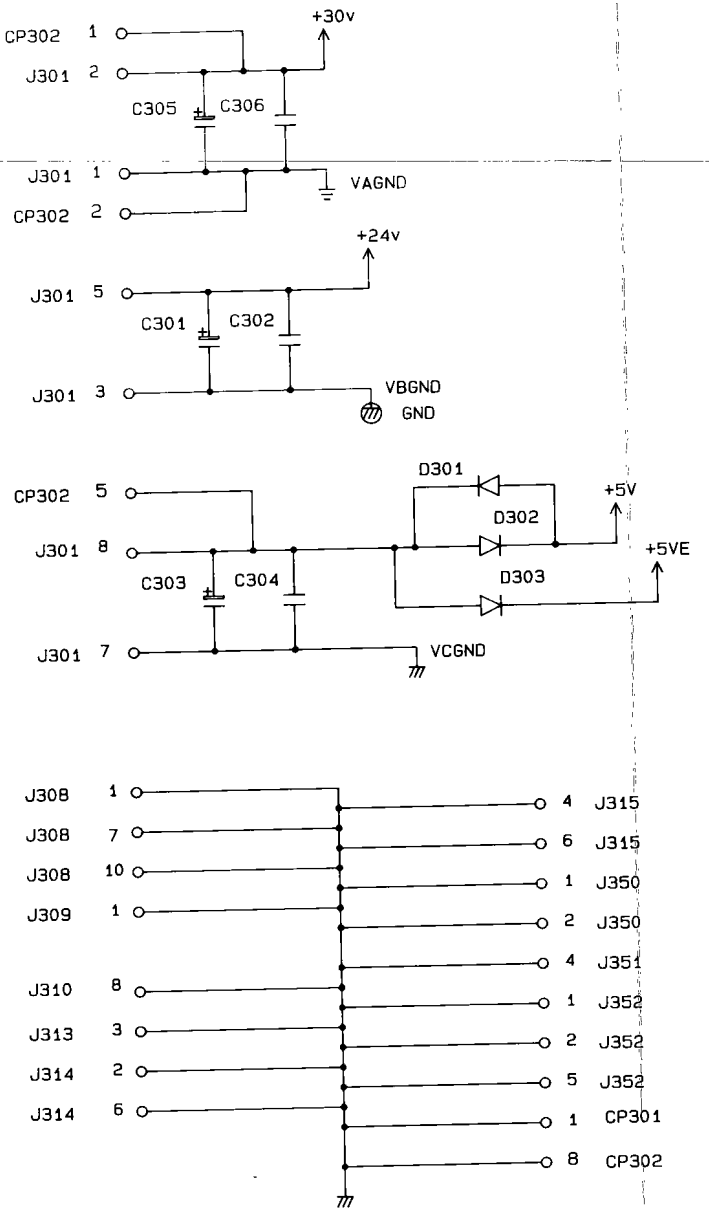
V. DC CONTROLLER PCB (A-504)

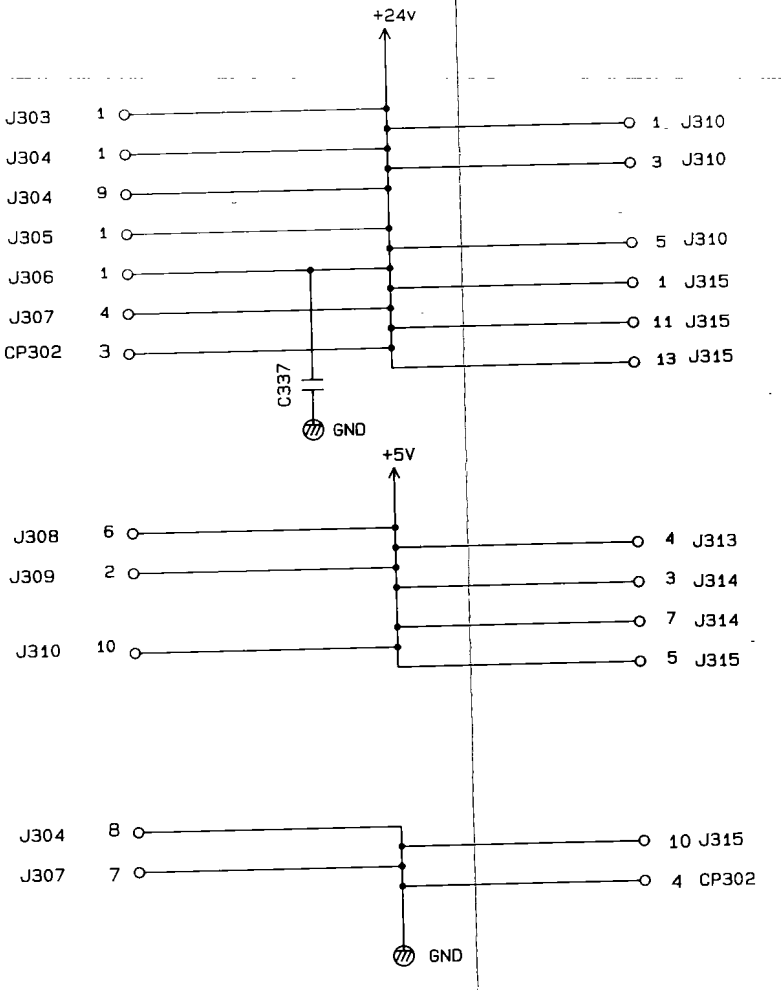




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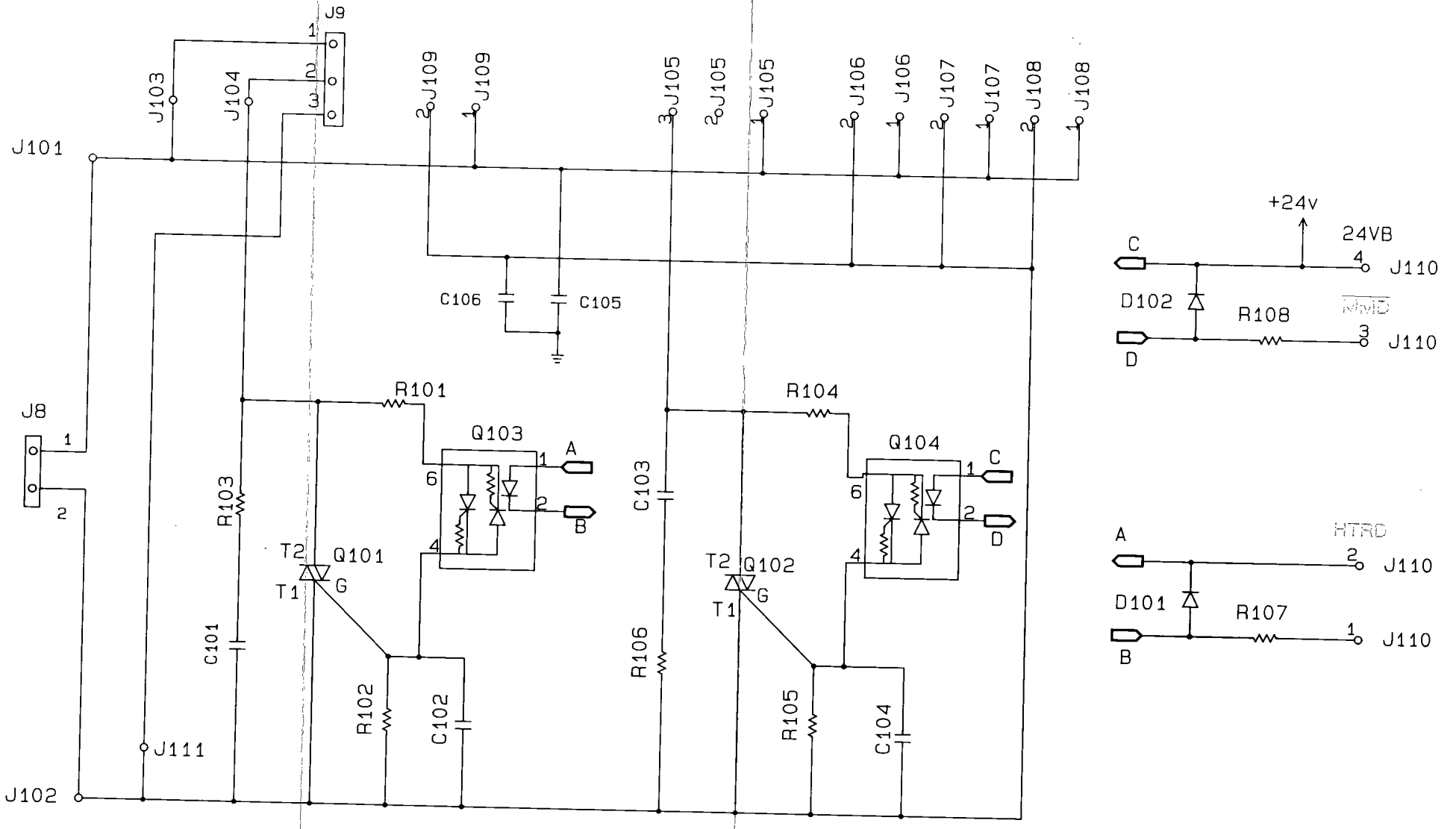
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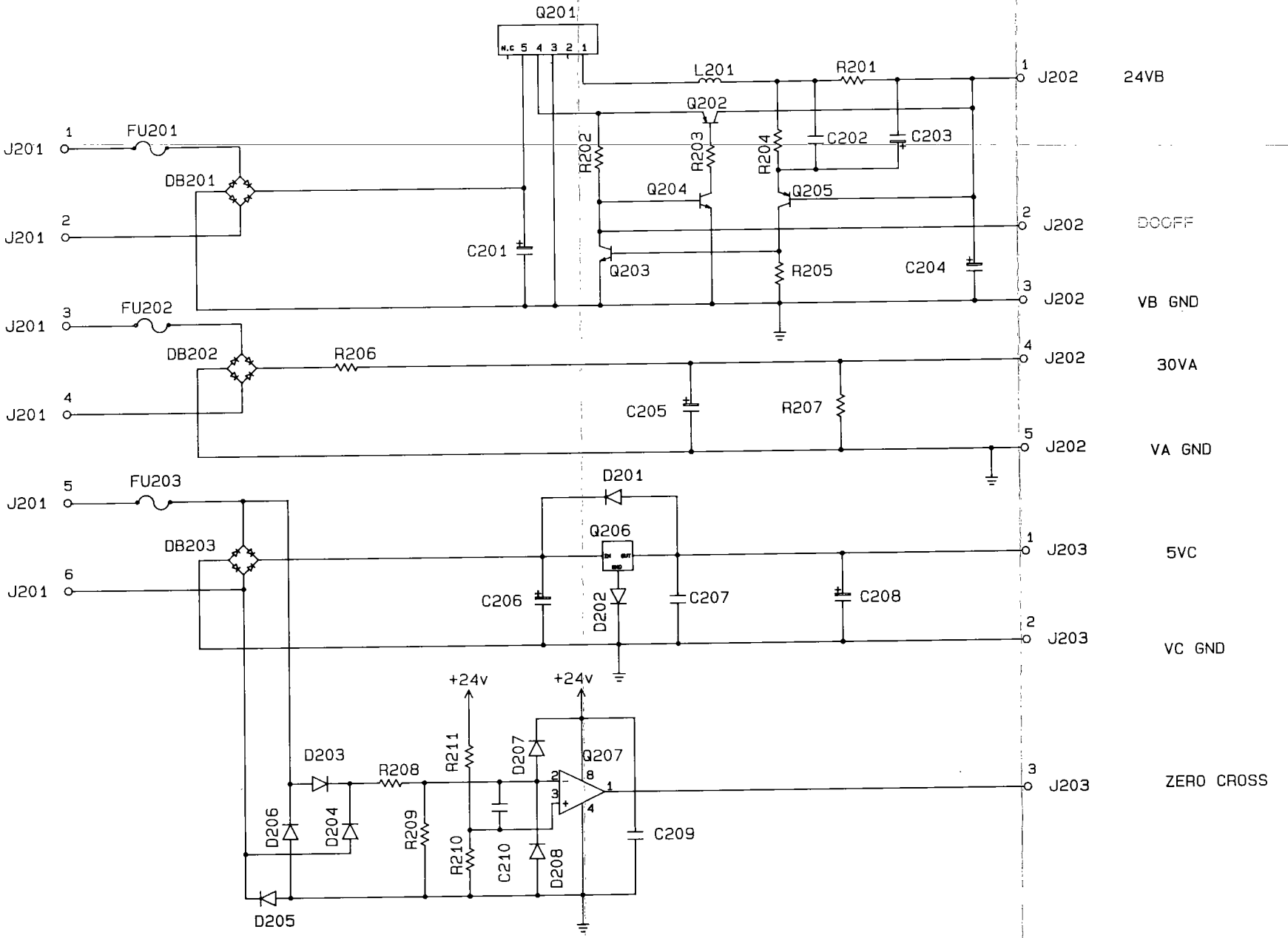
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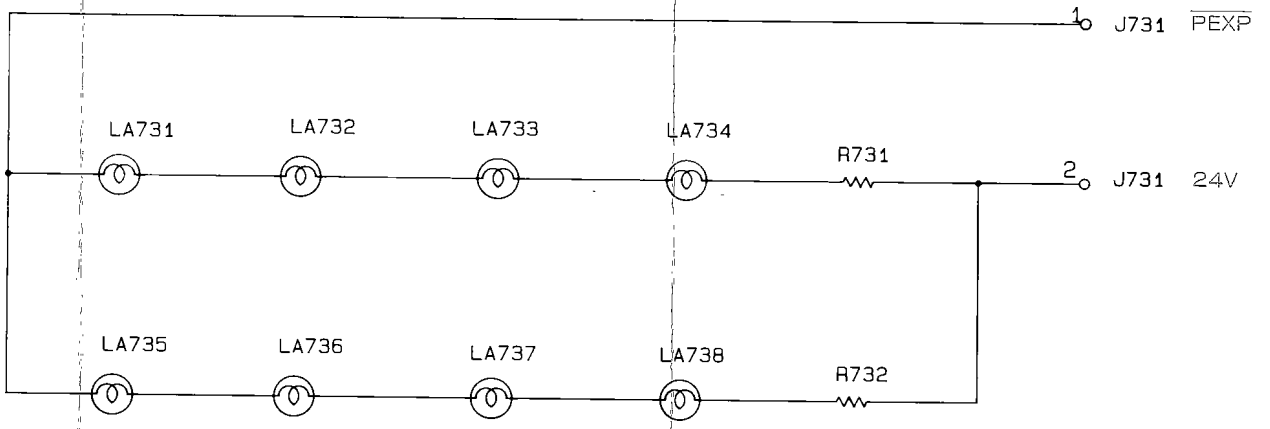
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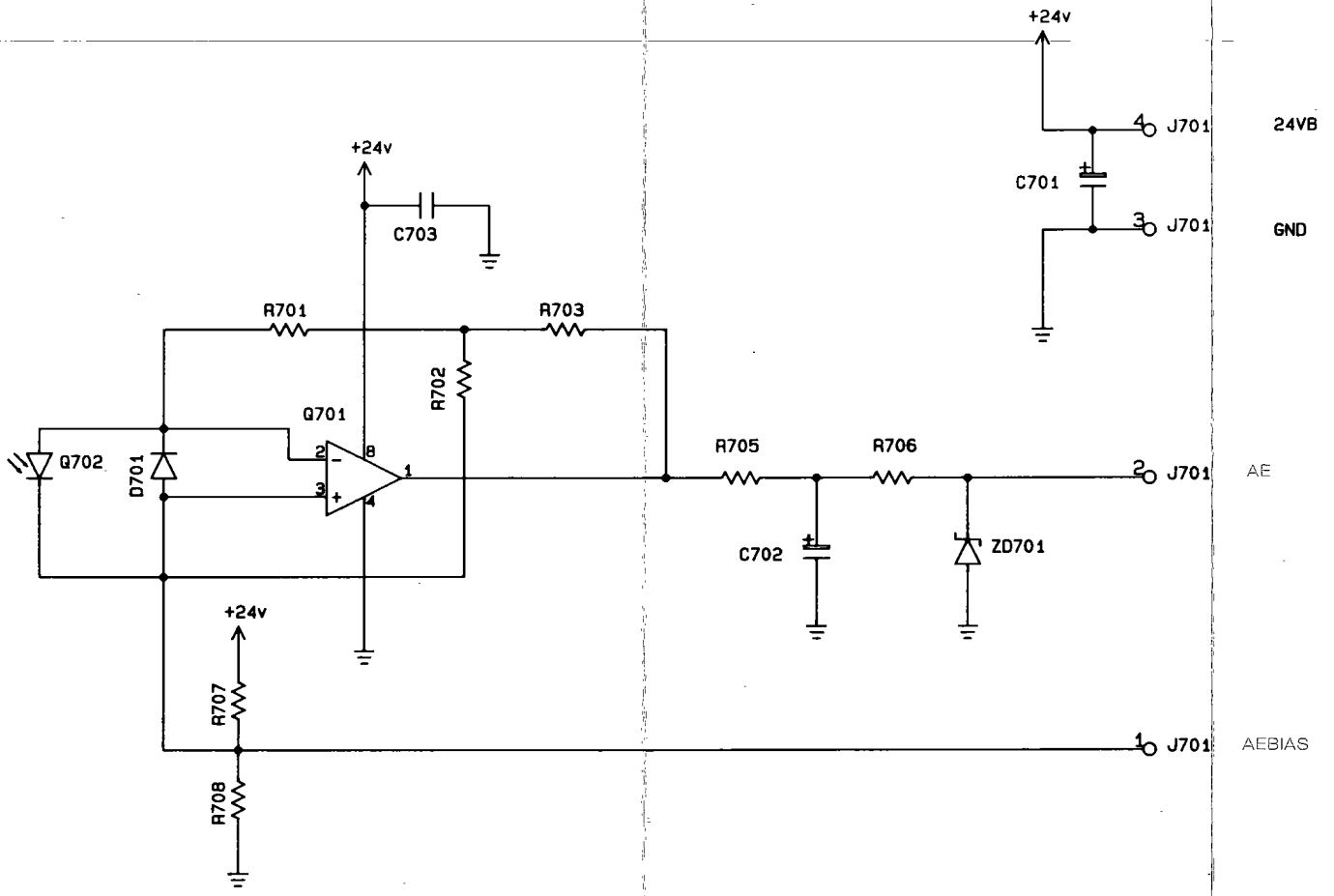
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VIII. PRECONDITIONING EXPOSURE LAMPS



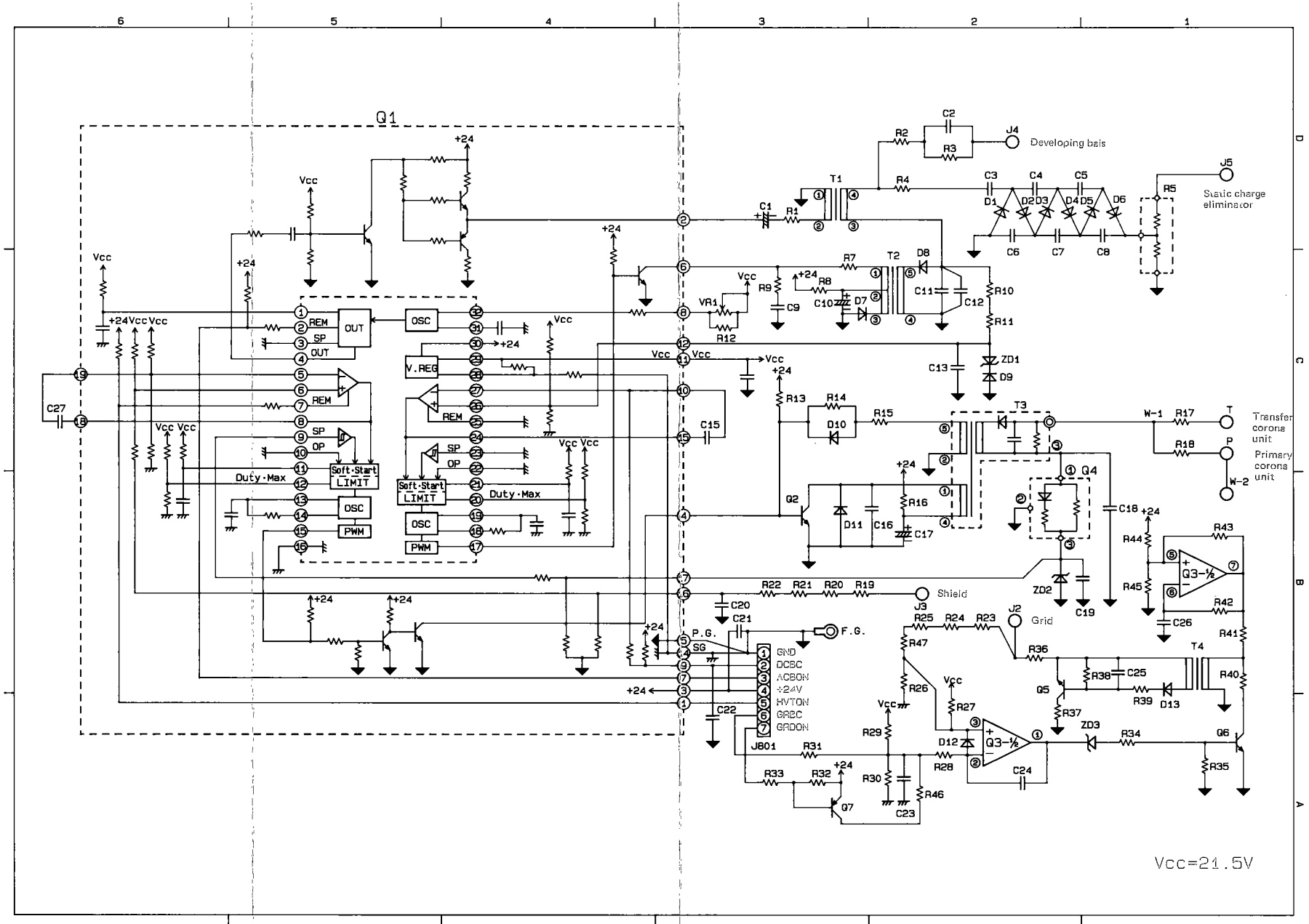
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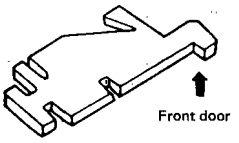
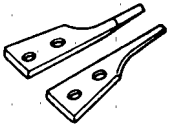


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XI. LIST OF SPECIAL TOOLS

Special tools which are required for servicing this copier (in addition to the standard tool set) are listed below.

No.	Tool name	Tool No.	Shape	Code	Application/remarks
1	Door switch actuator	TKN-0093		A	
2	Spring scale (compression)	CK-0054		B	• Measuring strength of cassette springs • Adjust scanner drive cable tension
3	Extension blades for pliers	CK-0426		B	For removing grip rings: 4 – 9 mm

Note: Rank
- A: Each service technician should carry one with him.
- B: A group of five service technicians should share one.
- C: Each workshop should keep one.

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XII. LIST OF SOLVENTS AND MATERIALS

No.	Material name	Use	Chemical formula, mixture ratio, etc.	Source	Remarks
1.	Ethyl alcohol (Ethanol) Isopropyl alcohol (Isopropanol)	Cleaning: copyboard, glass, mirror, etc.	C_2H_5OH $(CHZ_3)_2$ CHOH	Locally	Flammable. Use in a well-ventilated area. Avoid breathing concentrated vapor.
2.	MEK	Removing toner or oil stains	CH_3-CO-C_2H_5 Methylethyl ketone	Locally	Flammable. Use in a well-ventilated area and avoid breathing concentrated vapor. Avoid contact with eyes of skin. Do not use of cleaning the drum, plastic molded parts, or corona wires.
3.	Heat-resistant grease	Lubricating the drive mechanisms, e.g., copyboard driving gear, fixing drive gear, fixing ass'y, etc.		CANON	Tool No.: CK-0427 (500g can) (Equivalent grease can be used, but should be able to with-stand 200°C for extended periods of time.)
4.	Lubricating oil (low viscosity)	Lubrication points: Scanner rail, etc.	ISO VG 68 oil ESSO Febis K68 MOBIL Vactraoil No. 2 SHELL Tonna oil T68	Locally	Equivalent oil can be used. Tool No.: CK-0451 (100cc)
5.	Lubricating oil (low viscosity)	Lubrication point: One-way clutch in pick-up control unit	ISO VG 220 oil ESSO Febis K220 MOBIL Vactraoil No. 4	Locally	Equivalent oil can be used. Tool No.: CK-0524 (100cc)
6.	Detergent	Cleaning covers and panels of the machine	Mild detergent solution	Locally	Dish-washing detergent is acceptable.
7.	Trichloroethlene	Cleaning oil-stained parts during over-haul	CH_3CC1_3	Locally	Use in well-ventilated area. Avoid breathing vapor. Avoid contact with eyes, or excess contact with skin.

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NP-1215

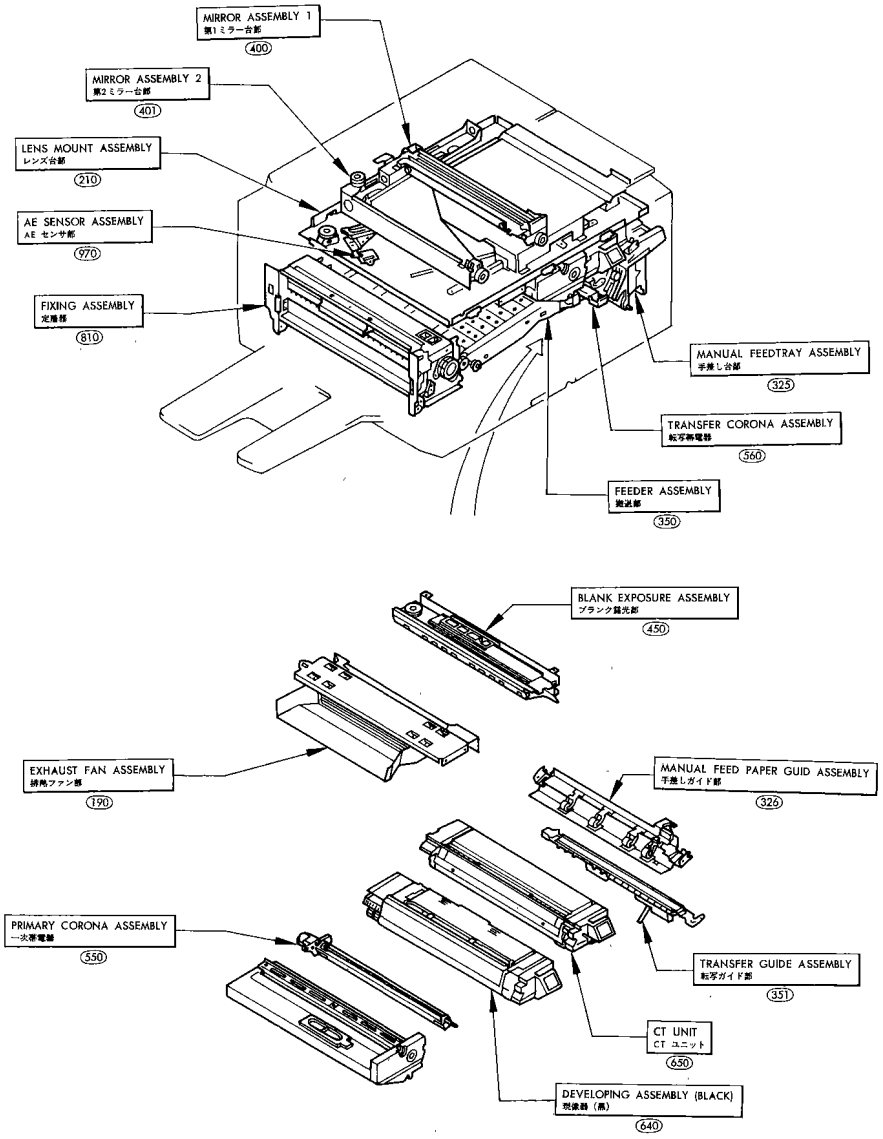
PARTS CATALOG

REVISION 3 SEPT. 1992

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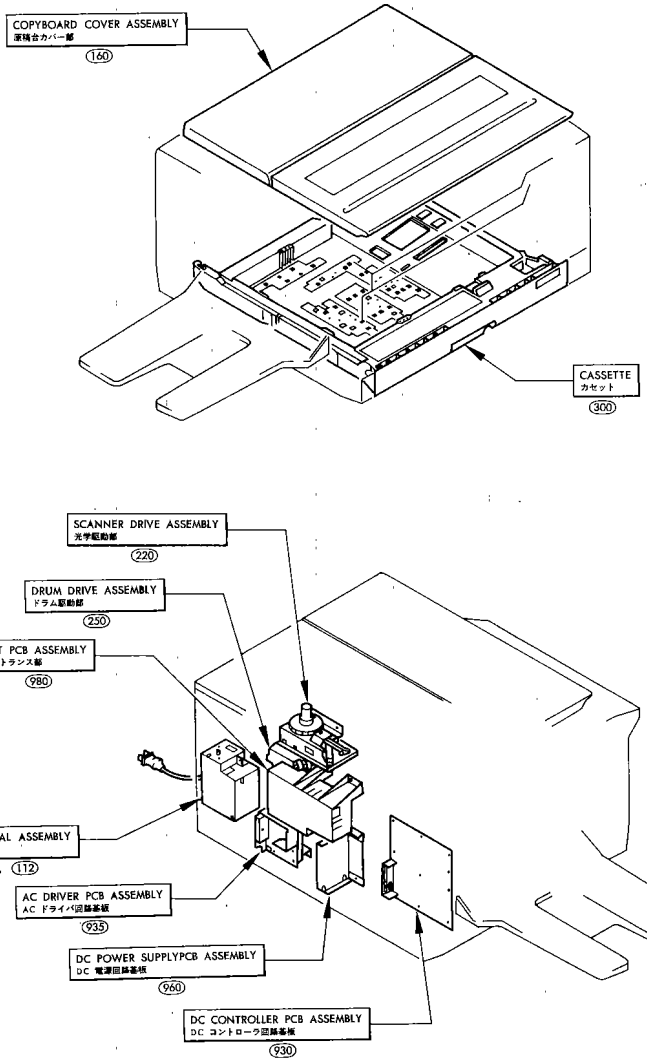
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FIGURE A ASSEMBLY LOCATION DIAGRAM (1/2)
主要部品配置図 (1/2)



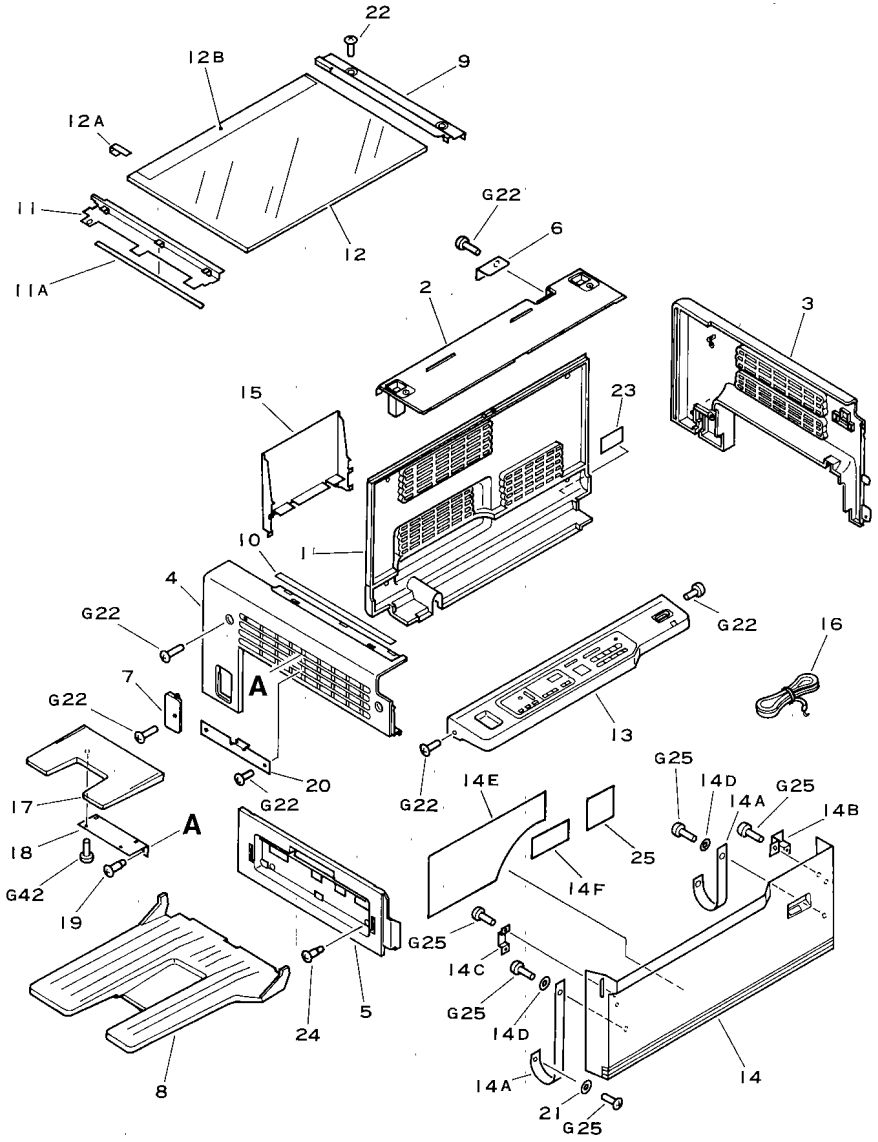
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FIGURE A ASSEMBLY LOCATION DIAGRAM (2/2)
主要部品配置図 (2/2)



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FIGURE 100 EXTERNAL COVERS, PANELS, ETC.
外装カバー



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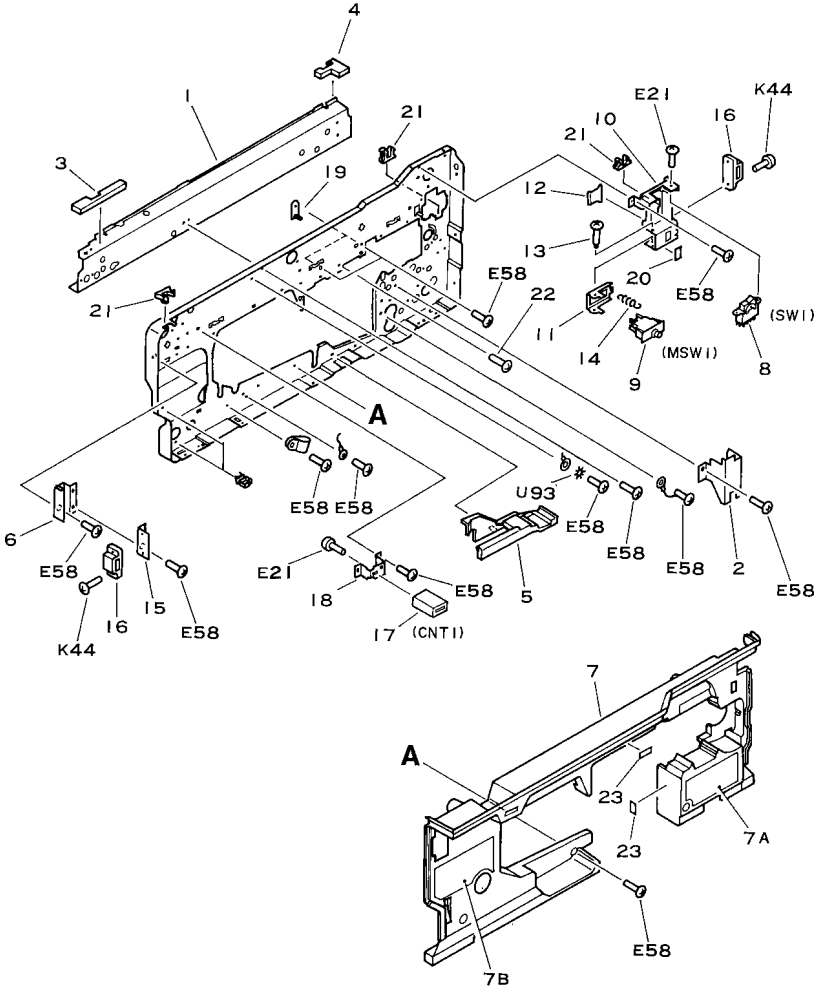
FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
100 –	NPN		RF	EXTERNAL COVER PANELS ETC ガイソウ カバー ブ	
1	FA5–2112–000		1	PANEL, REAR ウシロ カバー	
2	FA5–2113–000		1	COVER, UPPER, REAR ウエ ウシロ カバー	
3	FA5–2114–000		1	PANEL, RIGHT ミギ カバー	
4	FA5–2115–000		1	PANEL, LEFT ヒダリ カバー	
5	FA5–2116–000		1	PANEL, DELIVERY ハイシ カバー	
6	FA5–2118–000		1	PLATE, BLANKING, DF DF アナ カバー	
7	FA5–2119–030		1	COVER, VR チヨウセイ ヨウ フタ	
8	FA5–2132–000		1	TRAY, COPY ハイシ トレイ	
9	FA3–9829–000	N	1	RETAINER, COPYBOARD GLASS ミギ ガラス オサエ	
10	FS4–8095–030		1	PLATE, WIDTH INDEX サイズ プレート (タテ)	100V
	FS4–8097–000		1	PLATE, WIDTH INDEX サイズ プレート (タテ)	115V
	FS4–8099–000		1	PLATE, WIDTH INDEX サイズ プレート (タテ)	220/240V
	FS4–8101–000		1	PLATE, WIDTH INDEX サイズ プレート (タテ)	220/240V
11	FF2–0012–030		1	PLATE, WHITE ハクショク バン	
11A	FA9–1499–000		1	SPACER スペーサ	
12	FF1–9433–020		1	GLASS, COPYBOARD ゲンコウダイ ガラス	100V
	FF1–9434–000		1	GLASS, COPYBOARD ゲンコウダイ ガラス	115V
	FF2–0015–000		1	GLASS, COPYBOARD ゲンコウダイ ガラス	220/240V
	FF2–0016–000		1	GLASS, COPYBOARD ゲンコウダイ ガラス	220/240V
12A	FA5–2157–000		1	SPRING, LEAF イタ バネ	
12B	FS4–8094–030		1	PLATE, LENGTH INDEX サイズ プレート (ヨコ)	100V
	FS4–8096–000		1	PLATE, LENGTH INDEX サイズ プレート (ヨコ)	115V
	FS4–8098–000		1	PLATE, LENGTH INDEX サイズ プレート (ヨコ)	220/240V
	FS4–8100–000		1	PLATE, LENGTH INDEX サイズ プレート (ヨコ)	220/240V
13	FH6–0192–000		1	CONTROL PANEL UNIT ソウサ ブ	100V
	FH6–0193–000		1	CONTROL PANEL UNIT ソウサ ブ	115V
	FH6–0194–000		1	CONTROL PANEL UNIT ソウサ ブ	220/240V
	FH6–0202–000		1	CONTROL PANEL UNIT ソウサ ブ	220DMZ
	FH6–0484–000		1	CONTROL PANEL UNIT ソウサ ブ	240V
14	FG9–2401–000		1	DOOR, FRONT マエ ドア	
	FG9–2522–000		1	DOOR, FRONT マエ ドア	115/220/240V
14A	FA5–2121–000		2	STRAP, FRONT DOOR マエ ドア ササエ テープ	
14B	FA5–2122–000		1	PLATE, MAGNET マグネット ウケ バン	
14C	FA5–2123–000		1	PLATE, MAGNET マグネット ウケ バン	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
100 – 14D	FA2–7162–000		2	PLAIN WASHER バンド ワッシャ	
14E	FS4–8110–000		1	LABEL, TONER REPLENISHMENT トナー ホキュウ メイハン	
14F	FS4–8114–000		1	LABEL, JAM RESET 1 ジャム ショリ メイハン (1)	
15	FA5–2156–000		1	HOLDER, OPERATOR'S MANUAL アドバイス ブック イレ	
16	FH2–5006–000		1	GROUND CABLE UNIT アース セン	100V ONLY
17	FA5–2151–000		1	TABLE, DOCUMENT ゲンコウ オキ ダイ	
18	FA5–2152–000		1	MOUNT, TABLE, DOCUMENT ゲンコウ オキ ダイ トリツケ イタ	
19	FS1–9266–000		2	SCREW STEPPED, M4 ダンビス M4	
20	FA7–0048–020		1	PLATE, SCANNER LOCKING コウガク ケイ コテイ カナグ	
21	FA2–7162–000		2	PLAIN WASHER バンド ワッシャ	
22	XA9–0265–000		2	SCREW, WITHERED WASHER ワッシャ	
23	FS4–8122–000		1	PLATE, RATING, 100V 50HZ テイカク メイハン	
	FS4–8123–000		1	PLATE, RATING, 100V 60HZ テイカク メイハン	
	FS4–8348–000		1	PLATE, RATING, 220V テイカク メイハン	
	FS4–8349–000		1	PLATE, RATING, 240V テイカク メイハン	
	FY1–0595–000		1	PLATE, RATING, 115V テイカク メイハン	
24	FS1–9003–000		2	SCREW, STEPPED, M4 ダンビス	
	FS1–9169–000		2	SCREW, STEPPED ダンビス	
25	FS4–8353–000		1	CORONA HEIGHT LABEL タイデンキ ラベル	

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FIGURE 101 MACHINE FRONT PLATE
本体前側板

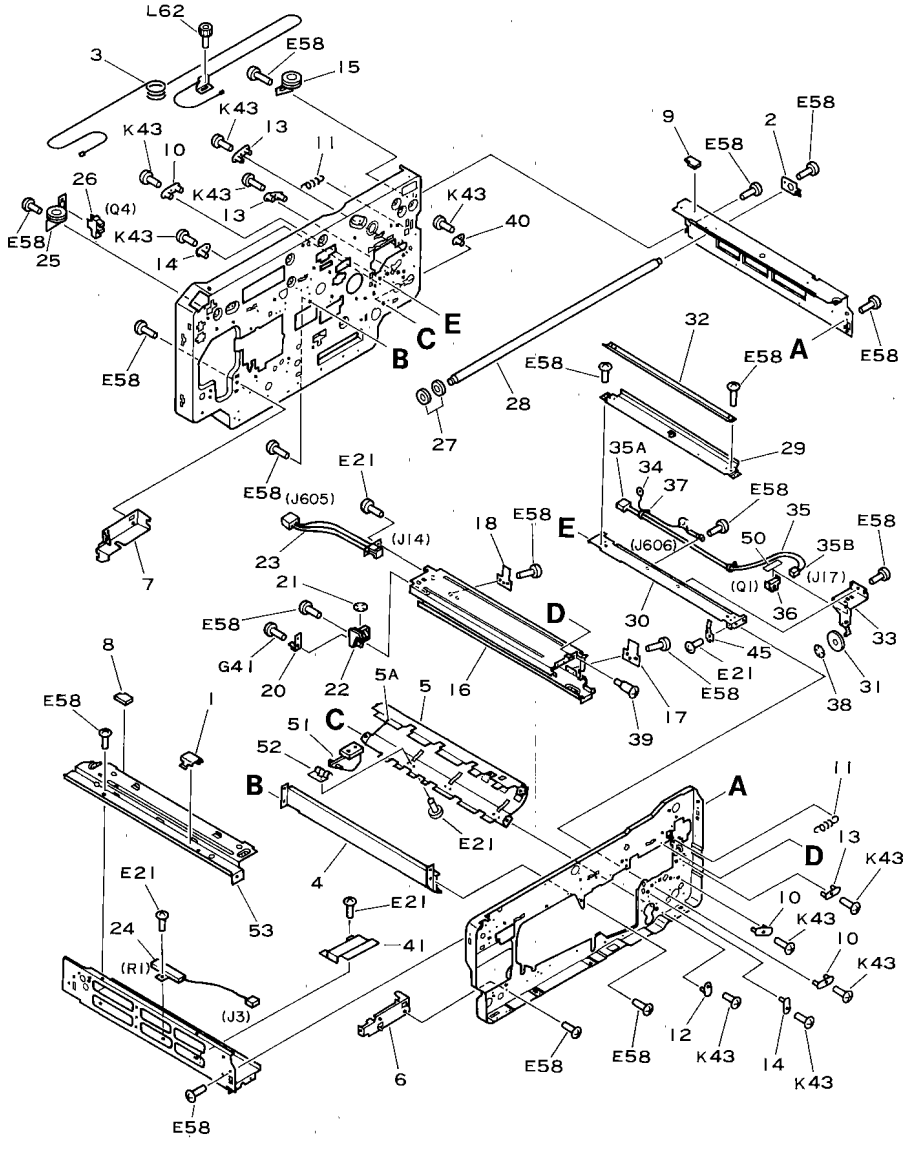


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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
101 –	NPN		RF	MACHINE FRONT PLATE ホンタイ マエ ソクバン	
1	FA5–2064–040		1	RAIL, FRONT マエ レール	
2	FA5–2098–000		1	MOUNT, RAIL ゲンソウ レール ササエ ダイ	
3	FA5–2105–000		1	SEAL, GLASS, 1 ガラス シール 1	
4	FA5–2106–020		1	SEAL, GLASS, 2 ガラス シール 2	
5	FA5–2124–000		1	COVER ウチ カバ –2	
6	FA5–2127–000		1	PLATE, MOUNTING, MAGNET, LEFT マグ ネット ジジ ダイ (ヒダリ)	
7	FF2–0022–000		1	COVER, INNER ウチ カバ –	
7A	FS4–8113–000		1	LABEL, JAM RESET 3 ジャム ショリ メイバン (3)	
7B	FS4–8115–000		1	LABEL, JAM RESET 2 ジャム ショリ メイバン (2)	
8	FH7–6080–000		1	SWITCH, ROCKER シーソ スイッチ	
9	WC2–0105–000		1	SWITCH, PUSH プッシュ スイッチ	
10	FA5–2046–000		1	MOUNT, SWITCH スイッチ ダイ	
11	FA5–2047–000		1	MOUNT, MICRO SWITCH マイクロスイッチ ダイ	
12	FA5–2048–000		1	PLATE, MICROSWITCH マイクロスイッチ オシイタ	
13	FS1–9261–000		1	SCREW, M3X29 ダンビス	
14	FS2–2772–000		1	SPRING, TENSION ヒッパリ バネ	
15	FA5–2099–000		1	PLATE, MOUNTING, MAGNET マグ ネット キャッチ ダイ	
16	XZ9–0251–000		2	CATCH, MAGNET マグ ネット キャッチ	
17	WP1–0019–000		1	COUNTER DC24V カウンタ	
18	FA5–2051–000		1	PLATE, COUNTER MOUNTING カウンタ トリツケ イタ	
19	FF1–9403–040		2	PIVOT, MOUNTING イチギ メバン	
20	FA9–0023–000		1	LABEL ラベル	115V
	FA9–0029–000		1	LABEL ラベル	100V
	FA9–0031–000		1	LABEL ラベル	220/240V
21	WT2–0295–000		6	GUIDE, CABLE. ケーブル ガイド	
22	XB1–2401–509		1	SCREW, MACH., TRUSS HEAD, M4X15 バインド ビス	
23	FA1–9972–000		2	LABEL "WARNING, HIGH VOLTAGE" コウアツ チュウイ メイバン	
	FS2–8612–000		2	LABEL "WARNING, HIGH VOLTAGE" コウアツ チュウイ メイバン	
	FS2–8613–000		2	LABEL "WARNING, HIGH VOLTAGE" コウアツ チュウイ メイバン	

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FIGURE 102 INTERNAL COMPONENTS 1
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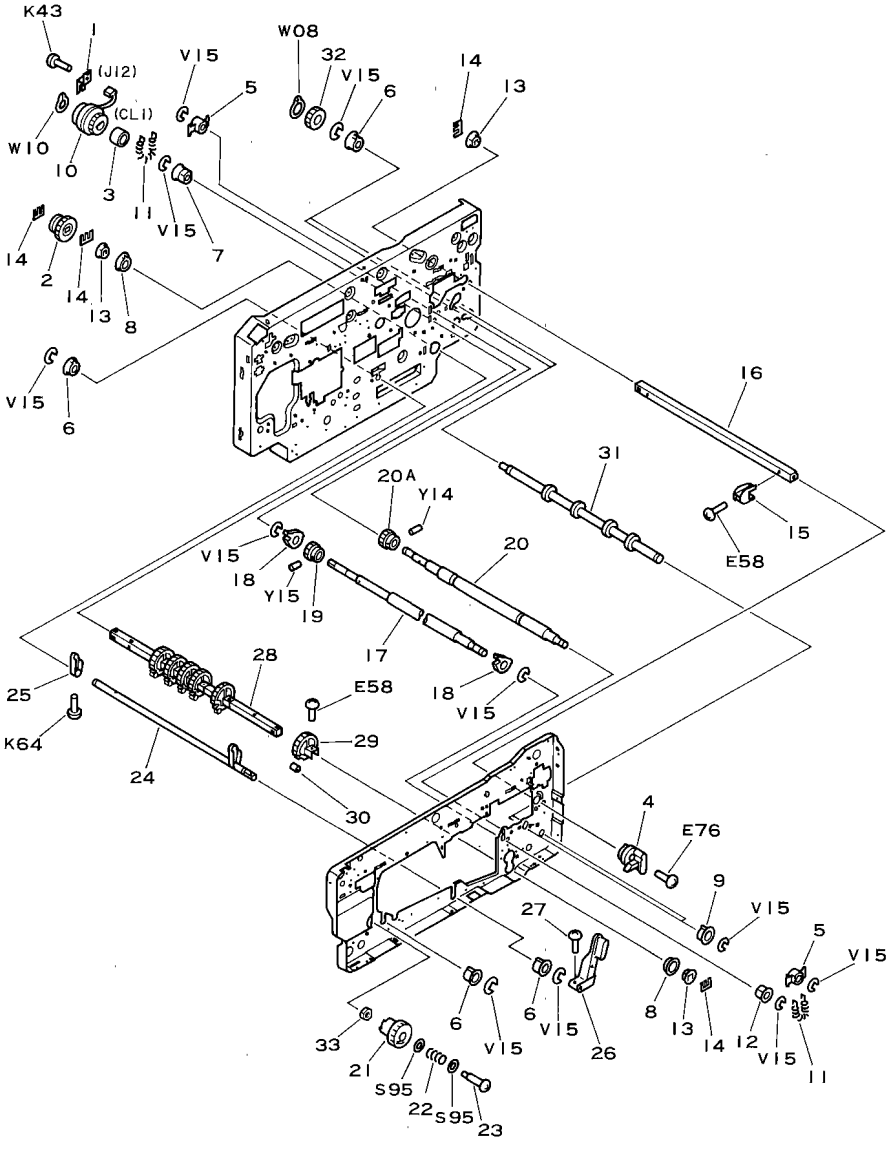
FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
102 –	NPN		RF	INTERNAL COMPONENTS 1 ホンタイ キカイ ナイブ 1	
1	FA5–2062–000		3	PLATE, HOLDER, CABLE タバ セン オサエ	
2	FA5–2072–000		1	PLATE, HOLDER, RAIL レール トメバ ン	
3	FA5–2073–000		1	CABLE, SCANNER DRIVE コウガ クケイ ワイヤ	
4	FA5–2074–020		1	RAIL, DRUM UNIT キツト レール	
5	FF2–0025–000		1	PLATE, GUIDE, PAPER カミ ガ イド	
5A	FA5–2135–000		1	SHEET, GUIDE, PAPER ペ ーパ ー ガ イド シート	
6	FA5–2091–000		1	RAIL, FIXING ASS' Y, FRONT テイチヤクキ レール (マエ)	
7	FA5–2092–000		1	RAIL, FIXING ASS' Y, REAR テイチヤクキ レール (ウシロ)	
8	FA5–2107–000		1	SEAL, GLASS, 3 ガ ラス シール 3	
9	FA5–2108–020		1	SEAL, GLASS, 4 ガ ラス シール 4	
10	FA5–2126–000		3	PIVOT, MOUNTING フロート ピ ン	
11	FS2–2768–000		2	SPRING, TENSION ヒツパ リ パ ネ	
12	FA1–9546–000		1	PIN イチギ メ ダ ボ	
13	FA5–2163–000		3	PIN GUIDE 2 フロート ピ ン 2	
14	FA4–1149–000		2	PLATE, PIN ゼ ツエン ピ ン	
15	FF1–9432–000		1	PULLEY UNIT プ ーリ ダ イ	
16	FA5–1796–040		1	DEVELOPING LAIL ゲ ンゾ ウ レール	
17	FA5–1797–000		1	SPRING, LEAF FRONT カアツ パ ネ (マエ)	
18	FA5–1798–000		1	SPRING, LEAF REAR カアツ パ ネ (オク)	
20	FA5–1802–000		1	BIAS, SOCKET, FASTON パ イアス ファストン	
21	XA9–0134–000		1	NUT, PUSH プ ッシュ ナツト	
22	FF1–9412–000		1	HOLDER, ELECTRODE デ ンキヨク ホルダ ー	
23	FF9–0968–000		1	CABLE ゲ ンゾ ウ レール ソクセン	J605, J14
24	FH7–4298–000		1	RESISTOR ASSEMBLY 1 1KOHM, 10W ケツロ ボ ウシ テイコウ	100V ONLY
25	FF1–9431–000		1	PULLEY UNIT プ ーリ ユニツト	
26	FH7–7087–000		1	PHOTO–INTERRUPTER フオトインタラプ タ	
27	FA3–8493–000		3	RING, FELT オイル パ ツド	
28	FA5–2071–000	N	1	RAIL, SCANNER DRIVE コウガ クケイ レール	
29	FA5–1841–000		1	PLATE, GUIDE, PAPER, UPPER チユウカン ウエ ガ イド	
30	FA5–1842–000		1	PLATE, GUIDE, PAPER, LOWER チユウカン シタ ガ イド	
31	FA5–1848–000		1	DISK, PAPER DETECTION カミ ケン コロ	
32	FF1–9424–000		1	PLATE, SCRAPER シフン トリ パ ン	
33	FF1–9425–000		1	MOUNT, SENSOR カミ ケン センサ ダ イ	
34	FF2–0659–000		1	VARISTOR, 560V バ リスタ	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
102 -- 35	FF9-0970-000		1	CABLE ASS'Y チユウカン ガイド タバ セン	
35A	VS1-0192-003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	J606
35B	VS1-0440-003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	J17
36	FH7-7087-000		1	PHOTO-INTERRUPTER フオトインタラプタ	
37	WT2-0030-000		AR	TIE, CABLE ソクセン バンド	
38	XA9-0135-000		1	PUSH NUT プツシュ ナツト	
39	FS1-9169-000		2	SCREW, STEPPED ダンピス	
40	FA3-9120-000		1	PIN GUIDE フロート ピン 1	
41	FA6-5658-000		1	PLATE, HOLDER, CABLE ヒータ タバ セン オサエ	100V ONLY
45	FA5-1849-000		1	SPRING, LEAF アース バネ	
50	FA5-1850-000		1	SHEET センサー シート	
51	FF2-0029-000		3	PEAPER GUIDE ペーパー ガイド シート	115/220/240V
52	FA5-2142-000		3	PLATE, MOUNTING ガイド オサエ	115/220/240V
53	FA5-2061-000		1	CROSS MEMBER, LEFT, UPPER ヒダリ ステイ (ウエ)	

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FIGURE 103 INTERNAL COMPONENTS 2
本体内部 (2)



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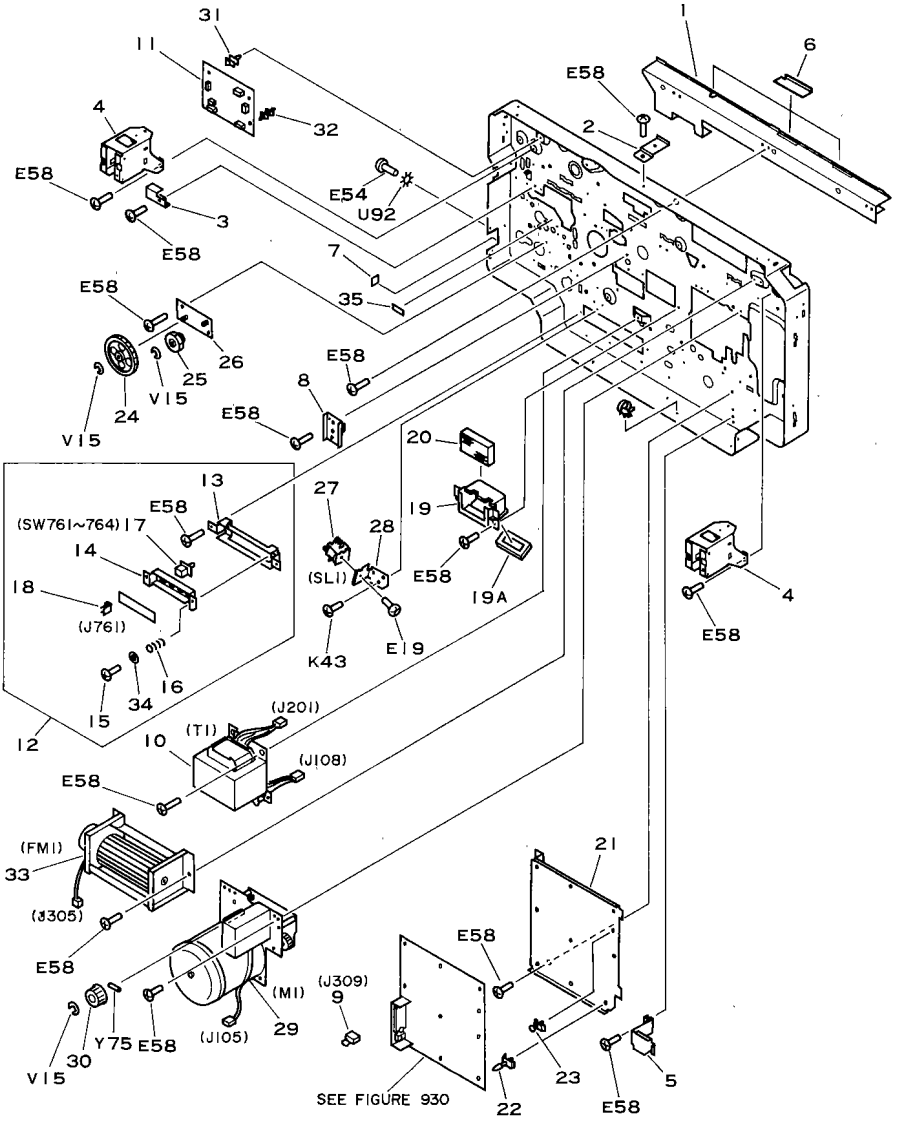
FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
103 –	NPN		RF	INTERNAL COMPONENTS 2 ホンタイ キカイ ナイブ 2	
1	FA5–2081–000		1	PLATE, STOP, REGIST, CLUTCH レジ スト マワリド メ	
2	FA5–2082–000		1	CLUTCH, ONEWAY P クラッチ	
3	FA5–2090–000		1	SPACER, CLUTCH クラッチ カラー	
4	FA5–2096–000		1	HANDLE, DEV. ASS'Y PRESS カアツ トッテ	
5	FS1–1595–000		2	BUSHING ジ ク ウケ	
6	FS1–1202–000		5	BUSHING ジ クウケ	
7	FS1–1402–000		1	BUSHING ブ ッシング	
8	FS1–1411–000		2	BUSHING ブ ッシング	
9	FS1–1462–000		2	BUSHING ブ ッシング	
10	FH7–5143–000		1	CLUTCH, EM デ ンジ クラッチ	
11	FS2–2783–000		2	SPRING, TENSION ヒッパ リ バ ネ	
12	FA1–0056–000		1	BUSHING ブ ッシング	
13	FA2–8225–000		3	BUSHING カク ジ クウケ	
14	FA2–9221–000		4	RETAINER トメワ	
15	FA5–2094–000		2	CAM カム	
16	FA5–2095–000		1	SHAFT カアツ ジ ク	
17	FA5–2087–040		1	ROLLER, REGISTRATION, LOWER レジ スト ローラ (シタ)	
18	FA5–2089–000		2	CAM カム	
19	96–0093–000		1	GEAR, 32T 32T ギ ア	
20	FG9–2392–000		1	ROLLER, REGISTRATION, UPPER レジ スト ローラ (ウエ)	
20A	FS2–0122–000		1	GEAR, 26T 26T ギ ア	
21	FA5–2093–030		1	KONB, FIXING ASSEMBLY テイチャク ノブ	
22	FS2–2784–000		1	SPRING, COMPRESSION アッシュク バ ネ	
23	FS1–9255–000		1	SCREW, STEPPED, M4 ダ ンビ ス	
24	FA5–1911–000		1	SHAFT, FEEDER ASS'Y RELESE ハンソウ カイジ ヨ ジ ク	
25	FA5–1912–000		2	CAM, FEEDER ASS'Y RELESE ハンソウ カイジ ヨ カム	
26	FA5–1913–030		1	LEVER, FEEDER ASS'Y RELESE ハンソウ カイジ ヨ レバ ー	
27	X07–4014–090		1	SCREW, M4X14 バ インド ビ ス	
28	FA5–1816–000		1	SHAFT, PICK-UP ROLLER キュウシ ジ ク	
29	FF1–4010–030		6	PICK-UP ROLLER キュウシ ローラ	100V
	FF2–0017–000		6	PICK-UP ROLLER キュウシ ローラ	115/220/240V
30	FA2–8227–000		6	ROLLER, PRESSURE オサエ ローラ	
31	FA5–1826–000		2	ROLLER, PARER FEED ハンソウ ローラ	
32	FS2–0875–000		2	GEAR, 16T 16T ギ ア	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
103 – 33	FA9–1780–000		1	NUT ナット	

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FIGURE 104 MACHINE REAR PLATE
本体後側板



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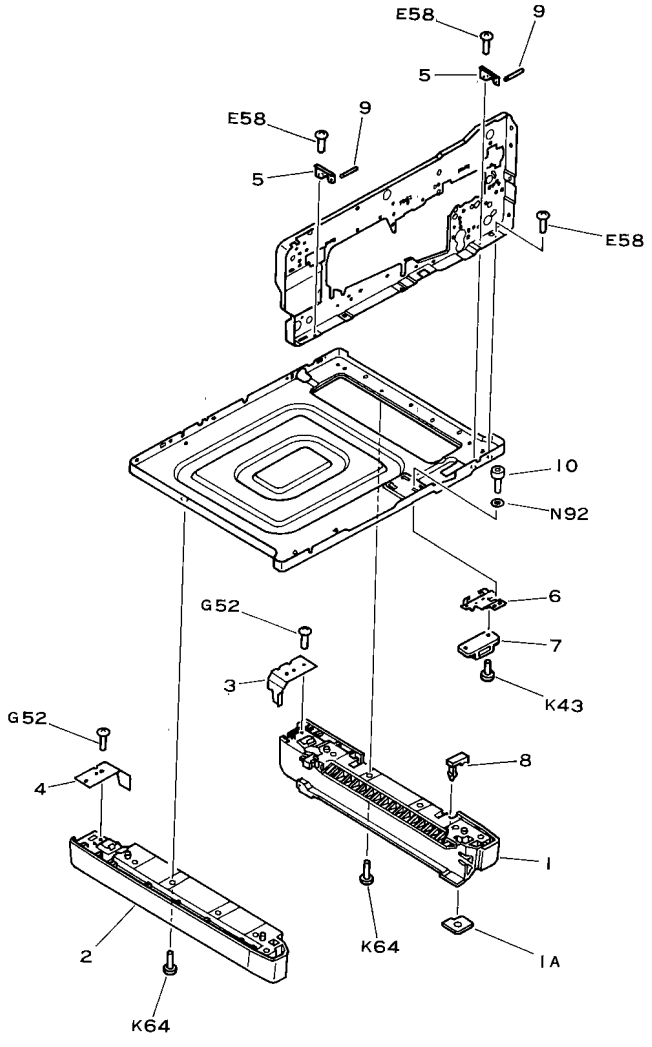
FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
104 –	NPN		RF	MACHINE REAR PLATE ホンタイ ウシロ ソクバン	
1	FA5–2065–040		1	PLATE, HOLDER, GLASS, REAR ウシロ ガラス ササエ	
2	FA5–2066–000		1	PLATE, HOLDER, GLASS ガラス オサエ イタ	
3	FA5–2067–000		1	PLATE, GUIDE, CABLE タバ セン ガイド	
4	FA5–2068–000		2	MOUNT, DF DF ダイ	
5	FA5–2103–000		1	PLATE, BLANKING, SORTER ソータ アナカクシ バン	
6	FA6–5660–000		3	SEAL, BLANKING アナ カクシ シール	
7	96–8212–000		1	LABEL, GROUND アース メイハン	100V
8	FF1–9404–000		1	PIVOT, MOUNTING マウリド メバン	
9	FF2–0687–000		1	CONNECTOR, SHORT, DC CONT. DC コントローラ ジャンパ コネクタ	115V
	FF2–0688–000		1	CONNECTOR, SHORT, DC CONT. DC コントローラ ジャンパ コネクタ	240V
	FF2–0689–000		1	CONNECTOR, SHORT, DC CONT. DC コントローラ ジャンパ コネクタ	220/240V
10	FH3–0298–000		1	TRANSFORMER, POWER, 100V デンゲン トランス	100V
	FH3–0299–000		1	TRANSFORMER, POWER, 115V デンゲン トランス	115V
	FH3–0300–000		1	TRANSFORMER, POWER, 220V デンゲン トランス	220V
	FH3–0301–000		1	TRANSFORMER, POWER, 240V デンゲン トランス	240V
11	FH3–7048–000		1	LAMP REGULATER PCB ASS'Y, 100V ランプ レギュレータ	100V
	FH3–7049–000		1	LAMP REGULATER PCB ASS'Y, 115V ランプ レギュレータ	115V
	FH3–7050–000		1	LAMP REGULATER PCB ASS'Y ランプ レギュレータ	220/240V
12	FG1–9211–000		1	CASSETTE DETECTION PCB ASS'Y カミ サイズ ケンチ	
13	FA5–1806–000		1	MOUNT, PCB カミ サイズ ケンチ ダイ	
14	FA5–1807–000		1	PLATE, SWITCH スイッチ バン	
15	FS1–9054–000		2	SCREW, STEPPED, M4 ダンピス	
16	FS2–2771–000		2	SPRING, COMPRESSION アッシュク バネ	
17	WC8–0034–000		4	SWITCH スイッチ	
18	WS3–0422–000		1	PIN ASSEMBLY, 5P (W) ピン アセンブリ	
19	FF1–9444–000		1	DUCT ダクト	
19A	FA5–2078–000		1	SEAL, DUCT ダクト シール	
20	FA5–2077–000		1	FILTER, AIR ハンソウ フイルタ	
21	FA5–2027–000		1	PLATE, MOUNTING, DC CONTROLLER DC コントローラ シバン	
22	VT2–0001–006		8	SUPPORT, PCB ロッキング サポート	
23	VT2–0002–006		1	SUPPORT, SPACER サポート スペーサ	
24	FS2–0876–000		1	GEAR, 58T 58T ギア	
25	FS2–0877–000		1	GEAR, 28T 28T ギア	
26	FF1–9413–000		1	PLATE, SPINDLE キョウシ クドウ ダイ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
104 – 27	FH7–5141–000		1	SOLENOID, DC24V ソレノイド	
28	FA5–1996–000		1	MOUNT, SOLENOID ソレノイド ダイ	
29	FH7–1522–000		1	MAIN MOTOR, 100V50HZ メイン モータ	100V50HZ
	FH7–1523–000		1	MAIN MOTOR, 100V60HZ メイン モータ	100V60HZ
	FH7–1524–000		1	MAIN MOTOR, 115V60HZ メイン モータ	115V
	FH7–1525–000		1	MAIN MOTOR, 220V50HZ メイン モータ	220V
	FH7–1526–000		1	MAIN MOTOR, 240V50HZ メイン モータ	240V
30	FS2–3430–000		1	PULLEY, 30T 30T プーリ	
31	VT2–0001–004		2	SUPPORT, PCB ロッキング サポート	
32	VT2–0001–006		2	SUPPORT, PCB ロッキング サポート	
33	FH7–1527–000		1	FAN ファン	
34	XD1–1106–725		2	WASHER ワッシャ	
35	FA1–9972–000		1	LABEL "WARNING, HIGH VOLTAGE" コウアツ チュウイ メイハン	100V
	FS2–8612–000		1	LABEL "WARNING, HIGH VOLTAGE" コウアツ チュウイ メイハン	115V
	FS2–8613–000		1	LABEL "WARNING, HIGH VOLTAGE" コウアツ チュウイ メイハン	220/240V

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FIGURE 105 MACHINE BOTTOM PLATE
本体底板

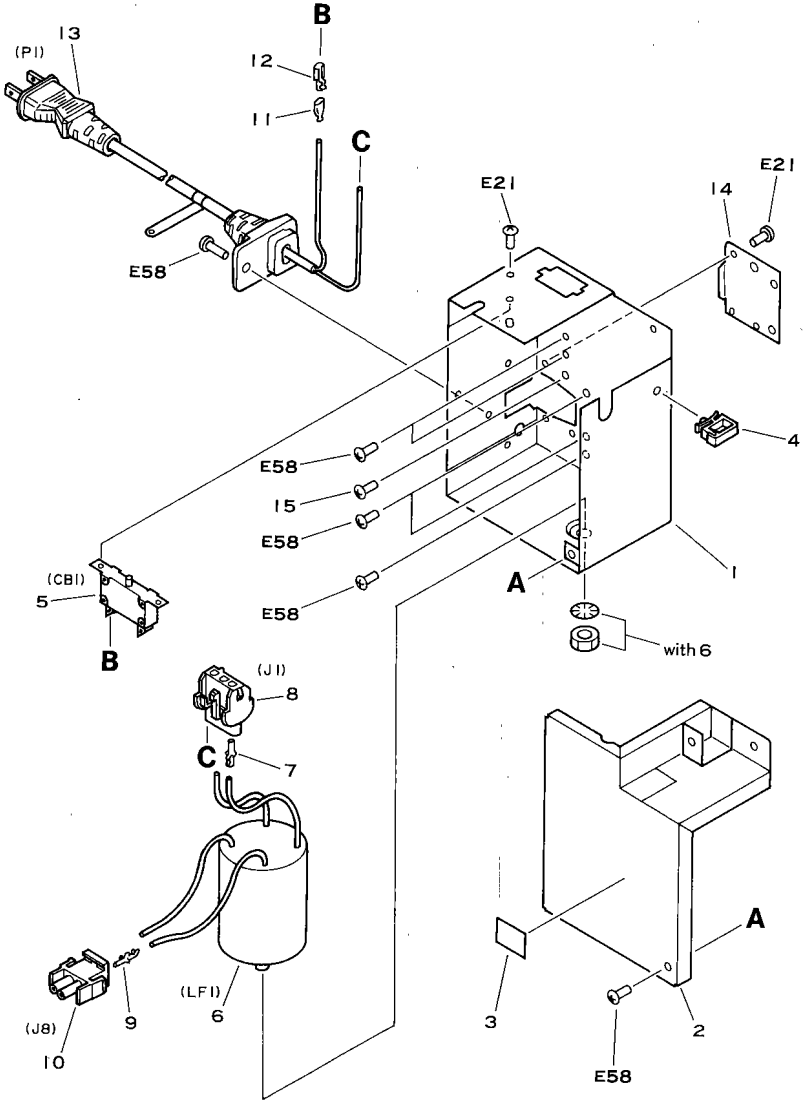


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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
105 –	NPN		RF	MACHINE BOTTOM PLATE ボンタイ ソコ イタ	
1	FF1–9426–000	N	1	MOUNT, MAIN BODY, RIGHT アシ (ミギ)	
1A	FA5–2085–000		2	FOOT, RUBBER ゴム アシ	
2	FA5–2084–000	N	1	MOUNT, MAIN BODY, LEFT アシ (ヒダリ)	
3	FA5–2100–000		1	COVER, RIGHT ミギ アシ カバー	
4	FA5–2101–000		1	COVER, LEFT ヒダリ アシ カバー	
5	FA5–2102–000		2	HINGE, FRONT DOOR マエカバー ヒンジ	
6	FA5–2104–000		1	PLATE, MOUNTING, MAGNET マグネット キヤツチ ダイ	
7	XZ9–0251–000		1	CATCH, MAGNET マグネット キヤツチ	
8	FA5–2110–000		2	HOLDER, SHAFT テザシ ロツク コマ	
9	FA9–1785–000		2	PIN HINGE, FRONT PANEL ピン	
10	XB7–1040–049		2	SCREW, SOCKET HEAD CAP, M4X4 ロツカク アナツキ ボルト	

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FIGURE 110 POWER CORD TERMINAL ASS'Y (100V)
電源コード台部 (100V)

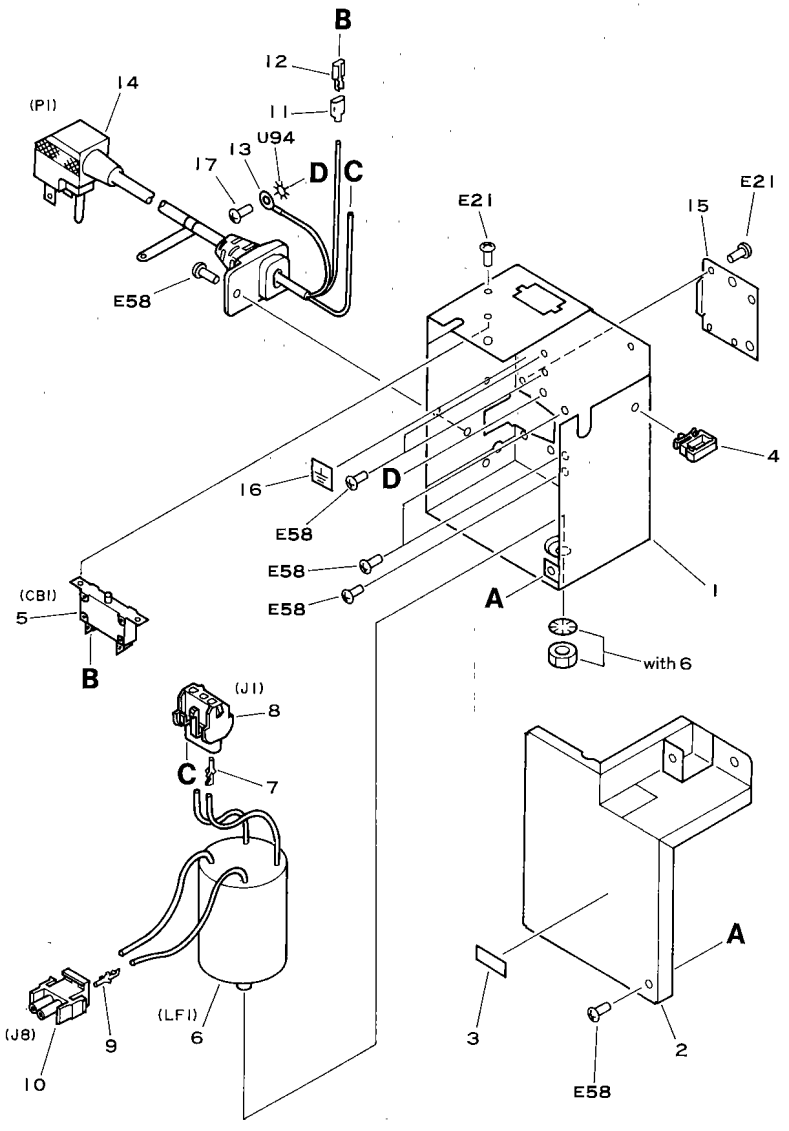


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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
110 –	FG1–7406–020	N	1	POWER CORD TERMINAL ASS'Y 100V デンゲンコード ダイブ	100V
1	FA5–2006–000		1	MOUNT, POWER CORD デンゲンコード ダイ	
2	FA5–2149–000		1	PLATE, COVER, NOISE FILTER ノイズ フイルタ カバー	
3	FA9–0029–000		1	LABEL ラベル	100V
4	WT2–0317–000		2	CLIP, CABLE ロツキング ワイヤ サドル	
5	WD3–0104–000		1	CIRCUIT BREAKER, AC125V15A サーキツト ブレーカ	
6	FH7–9040–000		1	FILTER, NOISE ノイズ フイルタ	
7	WS4–0073–000		3	SOCKET, CONTACT, 14–20AWG ソケツト コンタクト	
8	WS4–0193–000		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
9	WS4–0075–000		2	PIN, CONTACT, 14–20AWG ピン コンタクト	
10	WS4–0059–000		1	CONNECTOR, 2P, MALE コネクタ (オス)	
11	WT1–0171–000		2	SLEEVE, FASTON 205 フアストン スリーブ	
12	WT1–0143–000		2	SOCKET, FASTON 205, 14–18AWG フアストン	
13	FH2–5876–000		1	CORD, POWER, 125V 15A デンゲンコード	
14	FA5–2008–000		1	PLATE, BLANKING アナ カクシ	
15	XB1–2600–609		1	SCREW, MACH., TRUSS HEAD, M6X6 バインド ネジ	

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FIGURE 111 POWER CORD TERMINAL ASS'Y (115V)
電源コード台部 (115V)

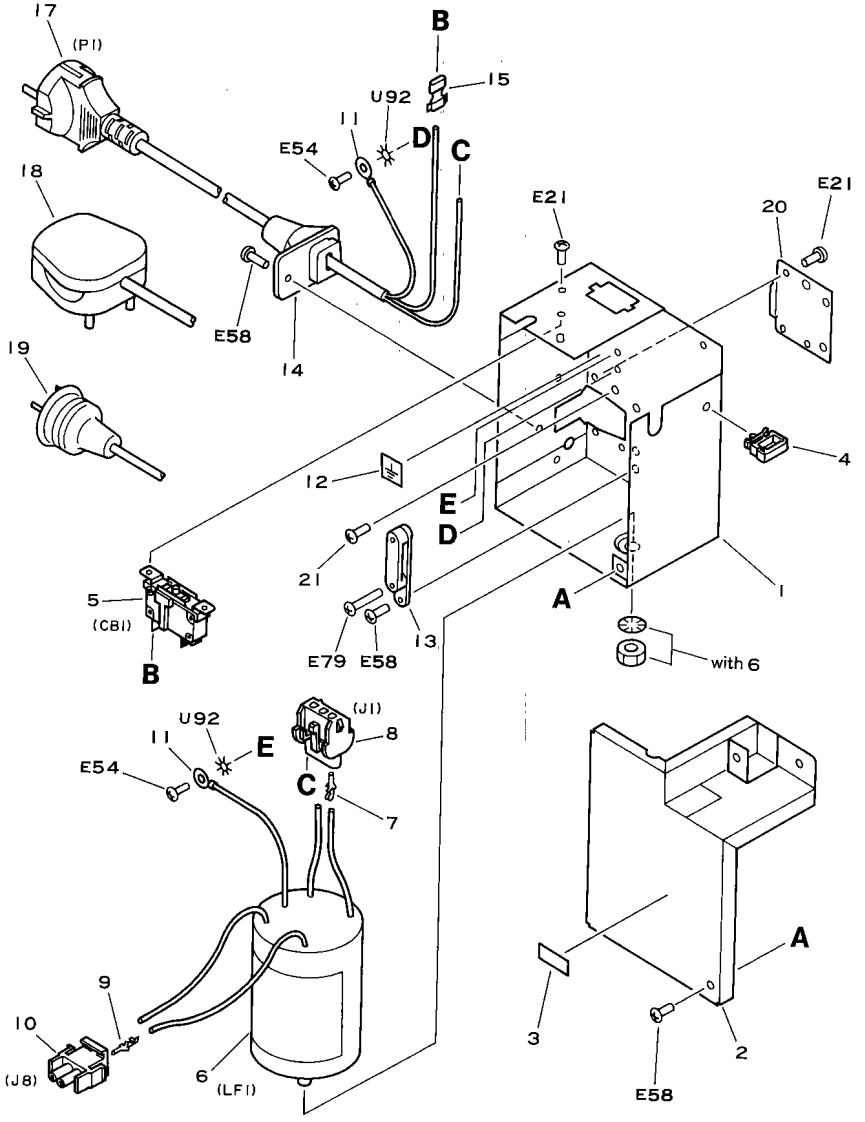


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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
111 –	FG1–7407–000	N	1	POWER CORD TERMINAL ASS'Y 115V デンゲンコード ダイブ	115V
1	FA5–2006–000		1	MOUNT, POWER CORD デンゲン コード ダイ	
2	FA5–2149–000		1	PLATE, COVER, NOISE FILTER ノイズ フイルタ カバー	
3	FA9–0023–000		1	LABEL ラベル	115V
4	WT2–0317–000		2	CLIP, CABLE ロツキング ワイヤ サドル	
5	WD3–0104–000		1	CIRCUIT BREAKER, AC125V15A サーキット ブレーカ	
6	FH7–0073–000		1	FILTER, NOISE ノイズ フイルタ	
7	WS4–0073–000		3	SOCKET, CONTACT, 14–20AWG ソケツト コンタクト	
8	WS4–0193–000		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
9	WS4–0075–000		2	PIN, CONTACT, 14–20AWG ピン コンタクト	
10	WS4–0059–000		1	CONNECTOR, 2P, MALE コネクタ (オス)	
11	WT1–0171–000		2	SLEEVE, FASTON 205 フアストン スリーブ	
12	WT1–0143–000		2	SOCKET, FASTON 205, 14–18AWG フアストン	
13	X66–6670–000		1	TERMINAL, RING, 6.4MM マルガタ タンシ	
14	FH2–5129–000		1	CORD, POWER, 300V 18A デンゲン コード	
15	FA5–2008–000		1	PLATE, BLANKING アナ カクシ	
16	96–8212–000		1	LABEL, GROUND アース メイハン	
17	XB1–2600–609		1	SCREW, MACH., TRUSS HEAD, M6X6 バインド ネジ	

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FIGURE 112 POWER CORD TERMINAL ASS'Y (220/240V)
電源コード台部 (220/240V)

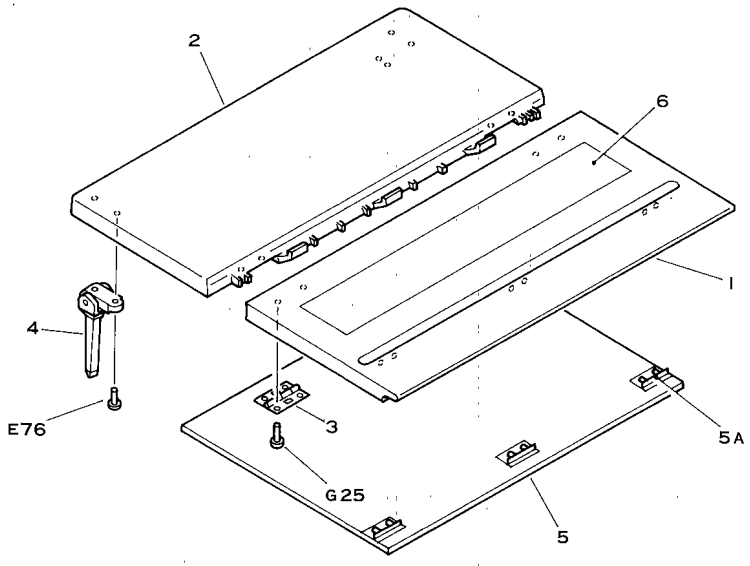


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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
112 —	FG1-7408-000	N	1	POWER CORD TERMINAL ASS'Y 220V デンゲンコード ダイブ	220V
	FG1-7409-000	N	1	POWER CORD TERMINAL ASS'Y 240V デンゲンコード ダイブ	240V
	FG1-7442-000	N	1	POWER CORD TERMINAL ASS'Y 240V デンゲンコード ダイブ	240V
1	FA5-2006-000		1	MOUNT, POWER CORD デンゲンコード ダイ	
2	FA5-2149-000		1	PLATE, COVER, NOISE FILTER ノイズ フイルタ カバー	
3	FA9-0026-000		1	LABEL シュウハスウ ラベル	220V
	FA9-0027-000		1	LABEL シュウハスウ ラベル	240V
4	WT2-0317-000		2	CLIP, CABLE ロッキング ワイヤ サドル	
5	WD3-0125-000		1	CIRCUIT BREAKER, AC250V 8A サーキット ブレーカ	
6	FH7-9132-000		1	FILTER, NOISE ノイズ フイルタ	
7	WS4-0073-000		3	SOCKET, CONTACT, 14-20AWG ソケット コンタクト	
8	WS4-0193-000		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
9	WS4-0075-000		2	PIN, CONTACT, 14-20AWG ピン コンタクト	
10	WS4-0059-000		1	CONNECTOR, 2P, MALE コネクタ (オス)	
11	WT1-0218-000		2	TERMINAL, RING マルガタ タンシ	
12	96-8212-000		1	LABEL, GROUND アース メイハン	220V/240V
13	FH2-5043-000		1	CRIP, CORD コード クリップ	
14	WT2-0178-000		1	BUSHING ブッシング	
15	WT1-0288-000		2	SOCKET, FASTON 250, 22-16AWG ファストン	
16	WT1-0288-000		2	SOCKET, FASTON 250, 22-16AWG ファストン	
17	WT3-9041-000		1	CORD, POWER, 250V 10A デンゲンコード	
18	WT3-9048-000		1	CORD, POWER, 250V 10A デンゲンコード	
19	WT3-9034-000		1	CORD, POWER, 250V 10A デンゲンコード	
20	FA5-2008-000		1	PLATE, BLANKING アナ カクシ	
21	XB1-2600-609		1	SCREW, MACH., TRUSS HEAD, M6X6 バインド ネジ	

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FIGURE 160 COPYBOARD COVER ASSEMBLY
原稿台カバー部



Note : The parts of Key No. 6 in the Figure160 is not included in the copyboard assembly.

注 : Key No. 6 は, このユニットには含まれていません。

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
160 –	FG1–7384–000		1	COPYBOARD COVER ASSEMBLY ゲンコウ ダイ カバーブ	
1	FA5–2154–000		1	COVER, COPYBOARD, FRONT ゲンコウ オサエ イタ (マエ)	
2	FA5–2155–000		1	COVER, COPYBOARD, REAR ゲンコウ オサエ イタ (ウシロ)	
3	FA5–1185–000		2	PLATE, HINGE ヒンジ バン	
4	FA4–9907–000		2	HINGE, COPYBOARD COVER ヒンジ	
5	FF1–5924–000		1	CUSHION ASS'Y, COPYBOARD COVER アツテヤク シート ユニット	
5A	FA3–9055–000		3	PLATE, CUSHION MOUNTING シート トリツケ イタ	
6	FS4–8119–000		1	LABEL, INSTRUCTION コピー ノ トリカタ メイバン	115

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FIGURE 190 EXHAUST FAN ASS'Y
排熱ファン部

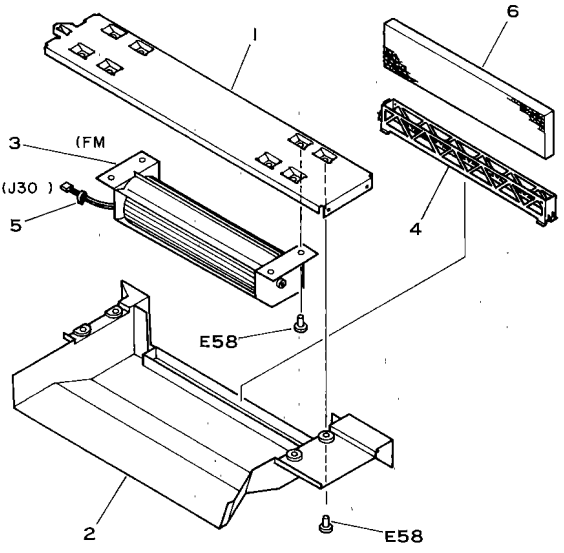
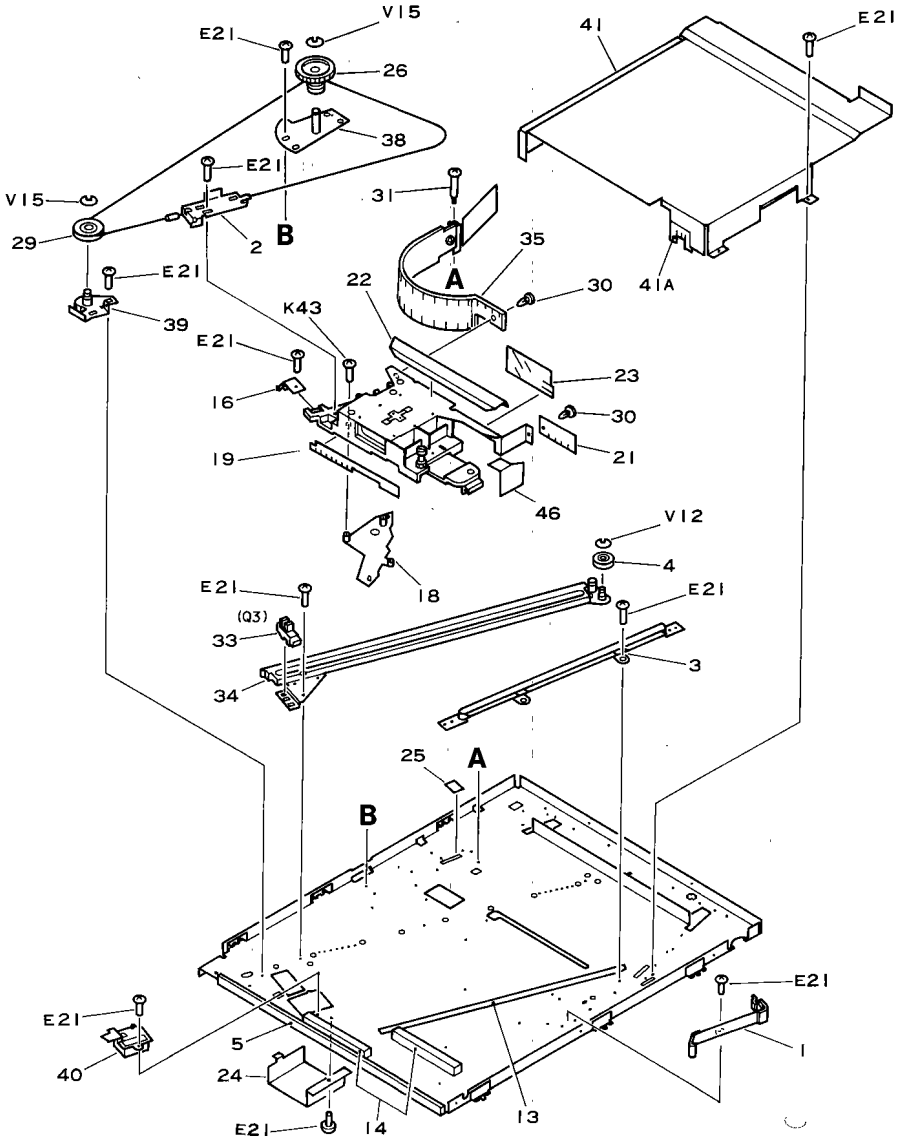


FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
190 –	FG1–7380–000		1	EXHAUST FAN ASSEMBLY ハイネツ ファン ブ	
1	FA5–1746–000		1	CROSSMEMBER ファン ステー	
2	FA5–1747–000		1	DUCT, FAN ファン ダ クト	
3	FH7–1528–000		1	FAN ファン	
4	FA5–1749–000		1	CASE, FILTER フイルタ ケース	
5	WT2–0030–000		3	TIE, CABLE ソクセン バ ンド	
6	FA6–5622–020		1	FILTER, OZONE オゾ ン フイルタ	

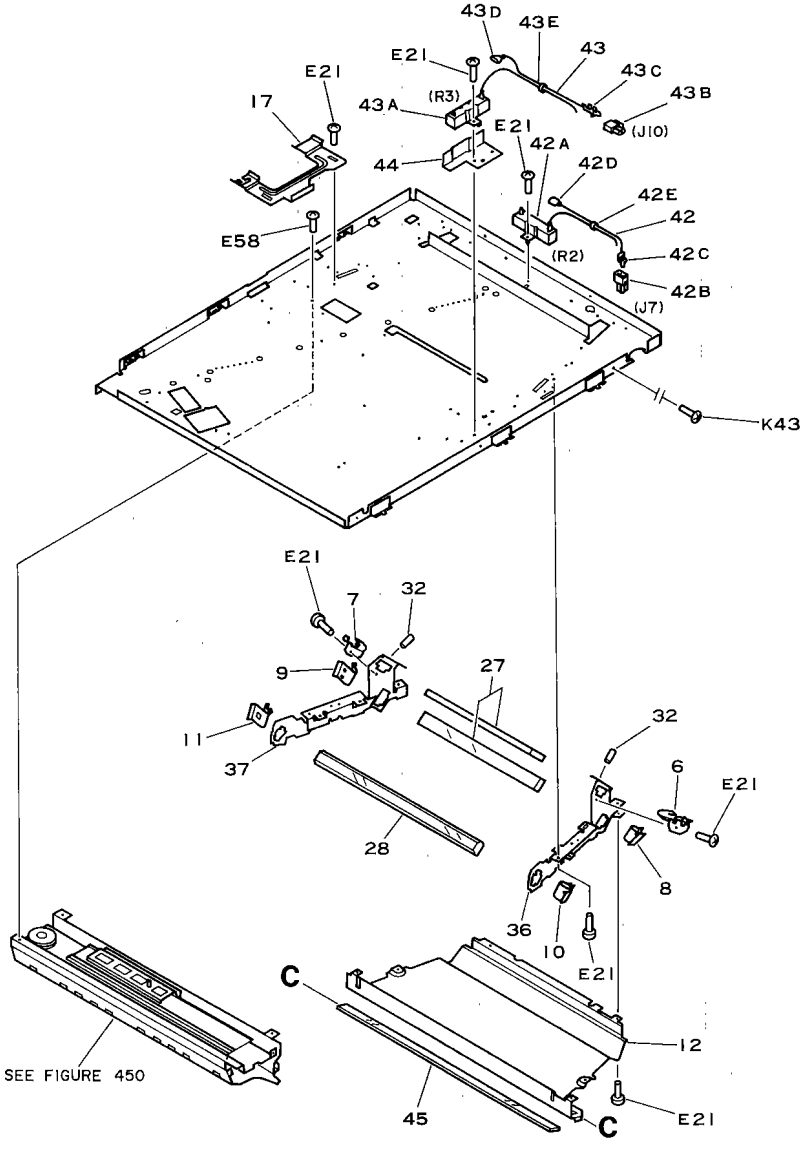
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FIGURE 210 LENS MOUNT ASSEMBLY (½)
レンズ台ユニット (½)



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FIGURE 210 LENS MOUNT ASSEMBLY (2/2)
レンズ台ユニット (2/2)



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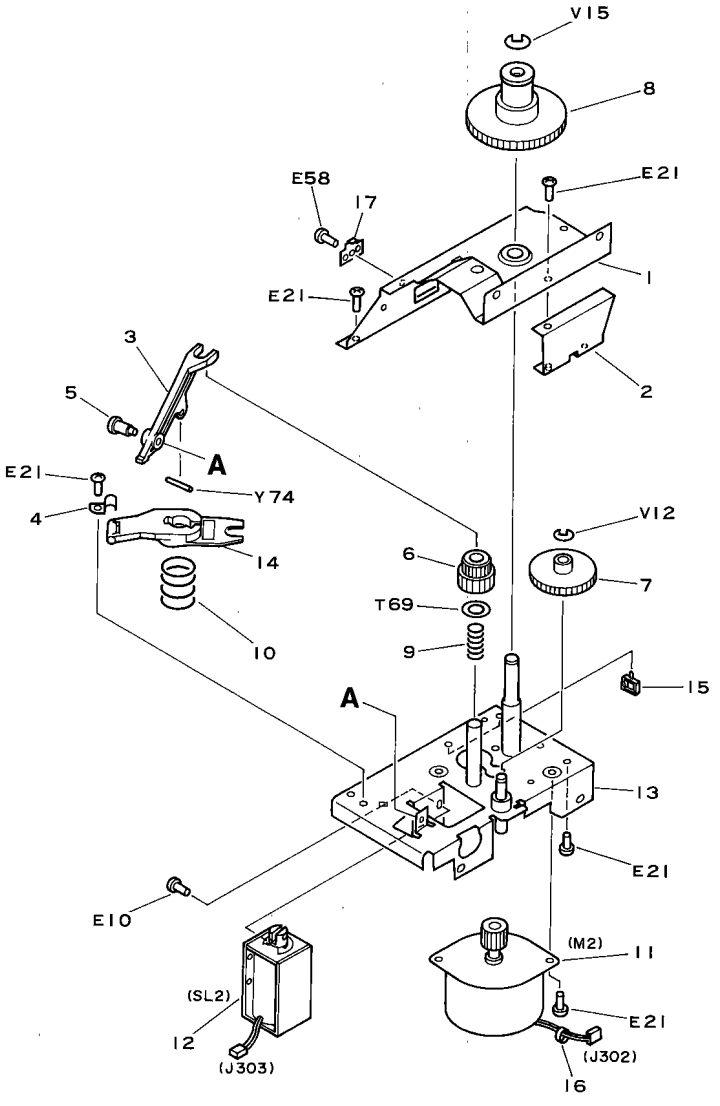
FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
210 –	NPN		RF	LENS MOUNT ASSEMBLY レンズ ダイブ	
1	FF2–1100–000		1	CLEANER UNIT, MIRROR ミラー セイソウ コウグ	
2	FA5–1577–000		1	WIRE, LENS DRIVE レンズ クドウ ワイヤ	
3	FA5–1580–000		1	GUIDE, CAM カム ミゾ	
4	FA5–1584–000		1	PULLEY 1 プーリ (1)	
5	FA5–1589–000		1	SEAL, LENS MOUNT レンズ ダイ シール	
6	FA5–1593–000		1	SPRING, LEAF, FRONT ミラー4 オサエ バネ (マエ)	
7	FA5–1594–000		1	SPRING, LEAF, REAR ミラー4 オサエ バネ (ウシロ)	
8	FA5–1595–000		1	SPRING, LEAF, FRONT ミラー5 オサエ バネ (マエ)	
9	FA5–1596–000		1	SPRING, LEAF, REAR ミラー5 オサエ バネ (ウシロ)	
10	FA5–1597–000		1	SPRING, LEAF, FRONT ミラー6 オサエ バネ (マエ)	
11	FA5–1598–000		1	SPRING, LEAF, REAR ミラー6 オサエ バネ (ウシロ)	
12	FA5–1599–030		1	COVER, DUST–RROOF ボウジン カバー	
13	FA5–1600–000		1	SHEET, SLIDE スベリ シート	
14	FA5–1601–000		2	SEAL, LIGHT BLOCKING シャコウ ザイ	
16	FA5–1604–000		2	SPRING, LEAF レンズ ダイ オサエ バネ	
17	FA5–1606–000		1	RETAINER, CORD コード オサエ	
18	FA5–1563–000		1	CAM, BLANK ブランク カム	
19	FA5–1564–020		1	SHEET, LIGHT BLOCKING 1 シャコウ シート 1	
21	FA5–1567–000		1	SEAL, LIGHT BLOCKING 1 シャコウ ザイ 1	
22	FA5–1568–000		1	SEAL, LIGHT BLOCKING 2 シャコウ ザイ 2	
23	FA5–1608–000		1	SHEET, LIGHT BLOCKING 3 シャコウ シート 3	
24	FA5–1609–000		1	COVER, AE SENSOR AE センサ カバー	
25	FA5–1610–000		1	PLATE ウエ キセイ バン	
26	FS2–0866–000		1	GEAR, 54T 54T ギア	
27	FN1–4214–000		2	MIRROR 4/5 ダイ 4,5 ミラー	
28	FN1–4215–000		1	MIRROR 6 ダイ 6 ミラー	
29	FA2–8059–000		1	PULLEY ガイド プーリ	
30	FA9–1699–000		2	CLIP クリップ	
31	FS1–9006–000		1	SCREW ダンピス	
32	X31–6240–880		3	SCREW トメ ネジ	
33	FH7–7087–000		1	PHOTO–INTERRUPTER フオトインタラプタ	
34	FF1–9379–020		1	RAIL, LENS レンズ レール	
35	FF1–9380–030		1	CURTAIN, LIGHT BLOCKING UNIT シャコウ カーテン	
36	FF1–9381–000		1	MOUNT, MIRROR FRONT ミラー ダイ (マエ)	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
210 – 37	FF1–9382–000		1	MOUNT, MIRROR REAR ミラー ダイ (ウシロ)	
38	FF1–9435–000		1	MOUNT, PULLEY 1 プリー ダイ (1)	
39	FF1–9436–000		1	MOUNT, PULLEY 2 プリー ダイ (2)	
40	FG1–7415–020		1	AE SENSOR ASSEMBLY AE センサ ブ	SEE FIGURE 970
41	FF2–0019–000		1	COVER, LENS レンズ フード	
41A	FA5–1611–020		1	LIGHT BLOCKING シャコウ ザイ	
42	FG1–7438–000		1	RESISTOR ASSEMBLY 2 1KOHM 20W ケツロ ボウシ テイコウ	100V ONLY
42A	VR5–4560–102		1	RESISTOR, 1KOHM, 20W テイコウ	100V ONLY
42B	VS4–0002–002		1	CONNECTOR, 2P, MALE コネクタ (オス)	100V ONLY
42C	WS4–0217–000		2	PIN CONTACT, 22–26AGW ピン コンタクト	100V ONLY
42D	X66–6662–000		2	SOCKET, FASTON, 187 ファストン	100V ONLY
42E	WT2–0435–000		1	CLAMP, CORD コード オサエ	100V ONLY
43	FG1–8393–000		1	RESISTOR ASSEMBLY 3 1KOHM 20W ケツロ ボウシ テイコウ	100V ONLY
43A	VR5–4560–102		1	RESISTOR, 1KOHM, 20W テイコウ	100V ONLY
43B	VS4–0001–002		1	CONNECTOR, 2P, MALE コネクタ (オス)	100V ONLY
43C	WS4–0220–000		2	PIN, CONTACT ピン コンタクト	100V ONLY
43D	X66–6662–000		2	SOCKET, FASTON, 187 ファストン	100V ONLY
43E	WT2–0435–000		1	CLAMP, CORD コード オサエ	100V ONLY
44	FA5–2128–000		1	PLATE, MOUNTING, HEATER ヒータ ダイ	100V ONLY
45	FN1–4216–000		1	GLASS, DUSTPROOF ボウジン ガラス	
46	FA5–1613–000		1	SHEET, LIGHT BLOCKING シャコウ シート	

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FIGURE 220 SCANNER DRIVE ASSEMBLY
光学系駆動部

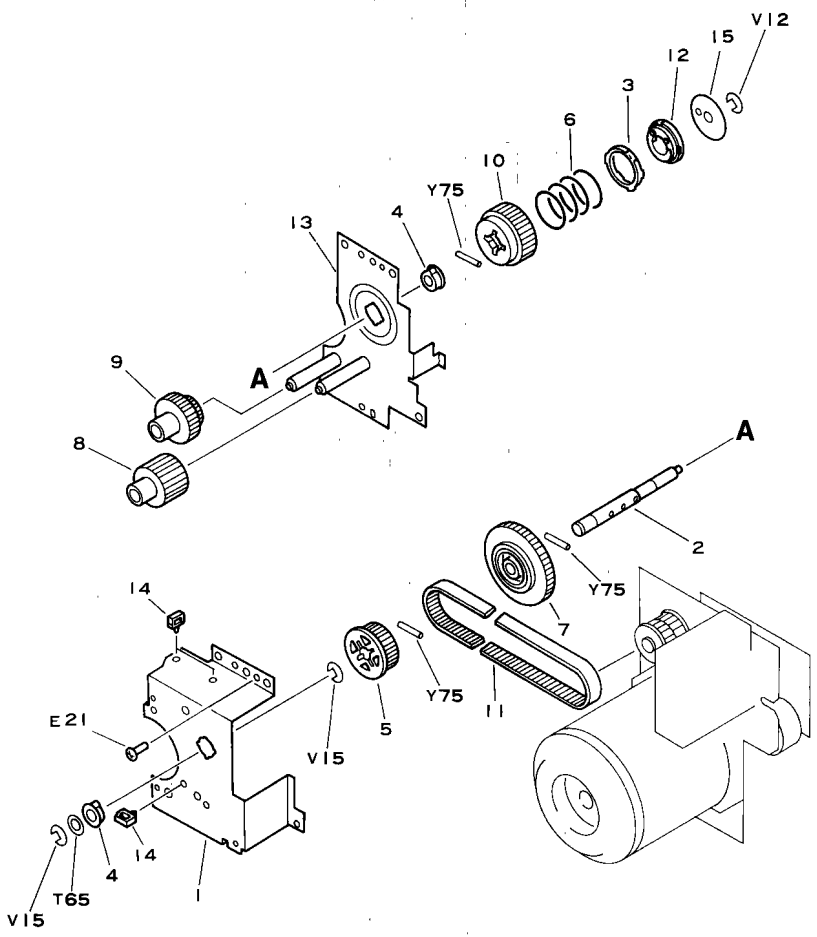


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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
220 –	FG1–7374–000		1	SCANNER DRIVE ASSEMBLY コウガ ク クドウ ブ	
1	FA5–1651–000		1	MOUNT, UPPER コウガ ク クドウ キダ イ (ウエ)	
2	FA5–1653–000		1	CROSSMEMBER コウガ ク クドウ ステイ	
3	FA5–1656–000		1	ARM, CHENGING キリカエ アーム	
4	FA5–1657–000		1	HINGE, ARM アーム ヒンジ	
5	FS1–9073–000		1	SCREW, STEPPED, M4 ダ ンピ ス	
6	FS2–0867–000		1	GEAR 25T/20T 25T/20T ギ ア	
7	FS2–0868–000		1	GEAR 48T 48T ギ ア	
8	FS2–0869–000		1	GEAR 72T 72T ギ ア	
9	FS2–2766–000		1	SPRING, COMPRESSION アツシュク バ ネ	
10	FS2–2767–000		1	SPRING, COMPRESSION アツシュク バ ネ	
11	FH7–1530–000		1	MOTOR, STEPPING, DC 30V ステツピ ンゲ モータ	
12	FH7–5142–000		1	SOLENOID, DC24V ソレノイド	
13	FF1–9389–000		1	MOUNT, LOWER コウガ ク クドウ キダ イ (シタ)	
14	FF1–9390–000		1	PLATE, BRAKE ブ レーキ イタ	
15	WT2–0248–000		2	CLIP, CABLE, 1NS ロツキング ワイヤ サド ル	
16	WT2–0030–000		1	TIE, CABLE ソクセン バ ンド	
17	FA5–2134–000		1	PLATE オサエ イタ	

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FIGURE 250 DRUM DRIVE ASSEMBLY
ドラム駆動部

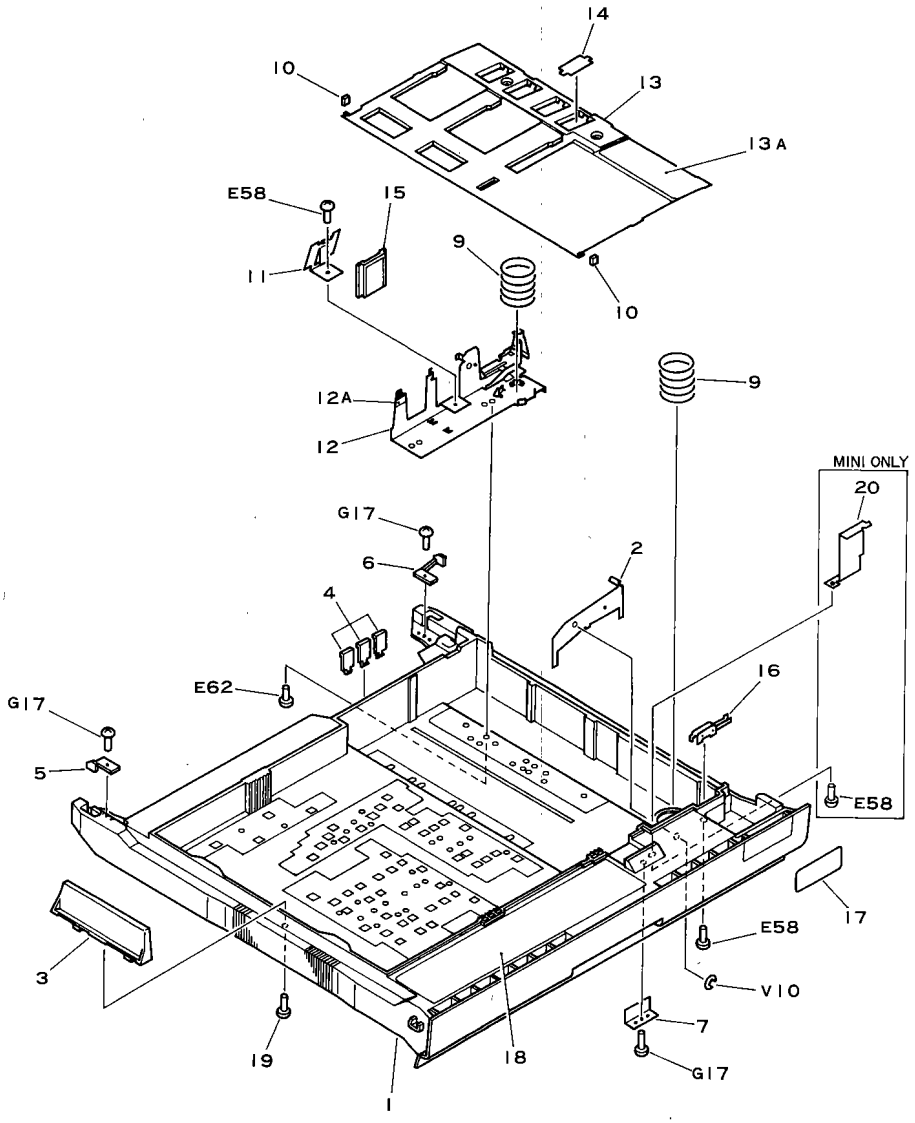


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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
250 –	FG1–7398–060		1	DRUM DRIVE ASSEMBLY ドラム クドウ ブ	
1	FA5–1982–040		1	PLATE, GEAR COVER ドラム クドウ カバー	
2	FA5–1983–000		1	SHAFT, DRUM DRIVE ドラム クドウ ジク	
3	FA5–1984–000		1	RING リミツタ バン	
4	FS1–1189–000		2	BUSHING ブ ツシング	
5	FS2–3430–000		1	PULLEY, 30T 30T プーリ	
6	FS2–2770–000		1	SPRING, COMPRESSION アツシユク バネ	
7	FS2–0878–000		1	GEAR, 60T 60T ギア	
8	FS2–0879–000		1	GEAR, 25T 25T ギア	
9	FS2–0880–000		1	GEAR, 33/22T 33/22T ギア	
10	FS2–0881–020		1	GEAR, 40T 40T ギア	
11	XF9–0210–000		1	BELT タイミング ベルト	
12	FF1–9414–020		1	DISK, DRUM DRIVE ドラム クドウ バン	
13	FF1–9415–000		1	PLATE, SPINDLE ドラム クドウ キバン	
14	WT2–0317–000		3	CLIP, CABLE ロツキング ワイヤ サドル	
15	FA5–1988–000		1	REINFORCEMENT PLATE ドラム クドウ エンバン	

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FIGURE 300 CASSETTE
カセット



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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
300 –	NPN		RF	CASSETTE カセット	
1	FA5–2221–020	N	1	BODY, CASSETTE カセット オテ	
2	FA5–2224–000		1	PLATE, HOLD–DOWN TAB, FRONT ブ ンリ ツメ (マエ)	
3	FA5–2228–000		2	PLATE, SIZE, REAR コウタン キセイ バ ン	
4	FA5–2231–030		3	BLOCK, SIZE サイズ ケンチ コマ	
5	FA5–2233–030		1	PLATE, STOP, LEFT ストツプ コマ (ヒダ リ)	
6	FA5–2234–030		1	PLATE, STOP, RIGHT ストツプ コマ (ミギ)	
7	FA5–2235–000		1	PLATE キヤンチヤ バ ン	
9	FS2–2785–000		2	SPRING, COMPRESSION アツシユク バ ネ	BLUE
	FS2–2786–000		2	SPRING, COMPRESSION アツシユク バ ネ	YELLOW
	FS2–2787–000		2	SPRING, COMPRESSION アツシユク バ ネ	WHITE
10	FA9–1781–000		2	STOP, RUBBER ストツパ	
11	FA2–7945–000		1	SPRING, LEAF サイド オサエ バ ネ	
12	FF1–9428–000		1	PLATE, HOLD–DOWN TAB, REAR ブ ンリ ツメ (ウシロ)	
	FF2–1101–000		1	PLATE, HOLD–DOWN TAB, REAR ブ ンリ ツメ (ウシロ)	MINI
12A	FS2–8120–000		1	LABEL ラベ ル	
	FS4–8356–000		1	LABEL ラベ ル	MINI
13	FF1–9429–000		1	PLATE, PAPER LIFTING ナカ イタ	
13A	FA5–2227–000		1	PLATE, FRICTION ブ ンリ シート	
14	FF1–9430–000		1	PLATE, BLANKING メカクシ バ ン	
15	FF1–5686–000		1	PLATE, PAPER CONTACT カセツト サイド オサエ	
16	FF2–0020–000		1	LEVER UNIT レバ ー シジ ダ イ	
17	FS4–8116–000		1	LABEL, A3/A4/B4/B5/LDR/LTR カセツト サイズ ラベ ル	
	FS4–8117–000		1	LABEL, A4R/B5R/LGL/LTR–R/FOLIO カセツト サイズ ラベ ル	
	FS4–8118–000		1	LABEL, STATEMENT カセツト サイズ ラベ ル	
18	FS4–8108–000		1	LABEL, CASSETTE CHANGING カセツト コウカン ラベ ル	
19	XB4–7401–009		2	SCREW, SELF TAPPING, M4X10 ビ ス M4X10	A3/A4R/LTR–R/LDR/
20	FA5–2161–000		1	SIDE GUIDE, MINI サイド ガ イド	MINI

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FIGURE 325 MANUAL FEED TRAY ASSEMBLY
手差し台部

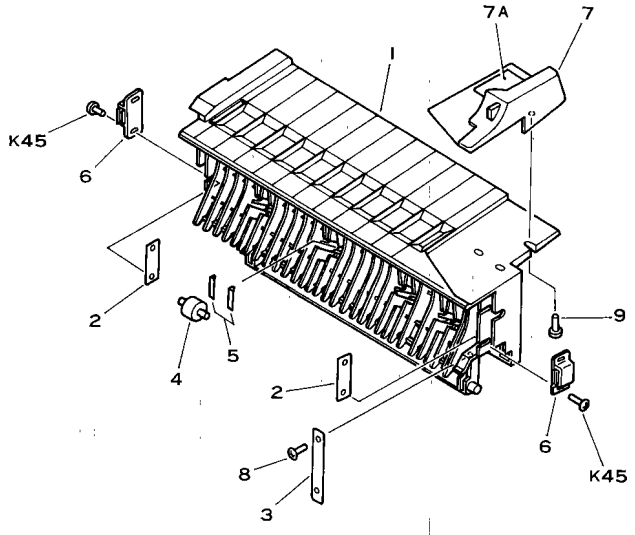
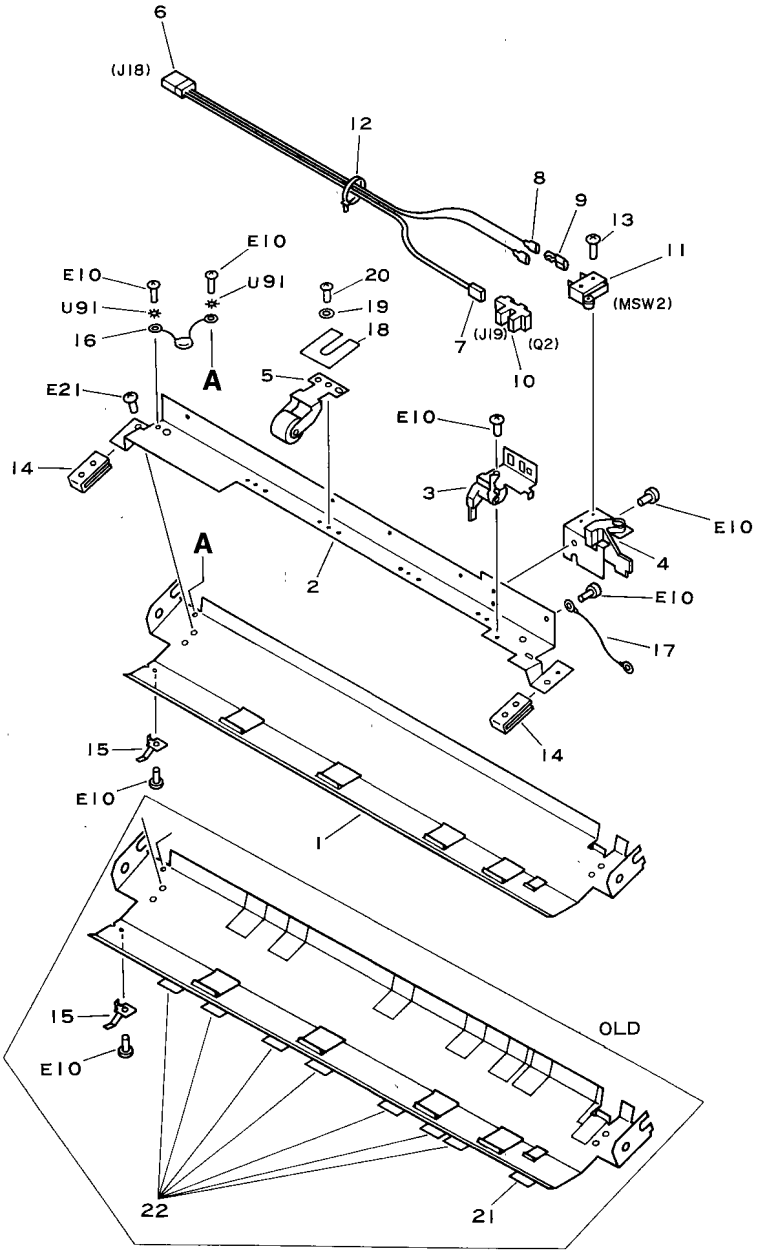


FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
325 —	FG1-7386-000		1	MANUAL FEED TRAY ASSEMBLY テザシダイブ	
1	FA5-1821-000		1	TRAY, MANUAL FEED テザシダイ	
2	FA5-1823-000		2	PLATE, NUT ナットイタ	
3	FA5-1824-000		2	STRAP, MANUAL FEED TRAY テザシダイテープ	
4	FA5-2159-000		4	ROLLER コロ	
5	FA4-5543-000		8	SPRING, LEAF イタバネ	
6	XZ9-0287-000		2	CATCH, MAGNET マグネットキャッチ	
7	FF2-0021-000		1	GUIDE, PAPER, MANUAL FEED サイドガイド	
7A	FS4-8109-000		1	LABEL ラベル	
8	XB4-7400-609		2	SCREW, TAPPING, SELF, M4X6 ビス M4X6	
9	XB4-7401-009		2	SCREW, SELF TAPPING, M4X10 ビス M4X10	

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FIGURE 326 MANUAL FEED PAPER GUIDE ASS'Y
手差しガイド部

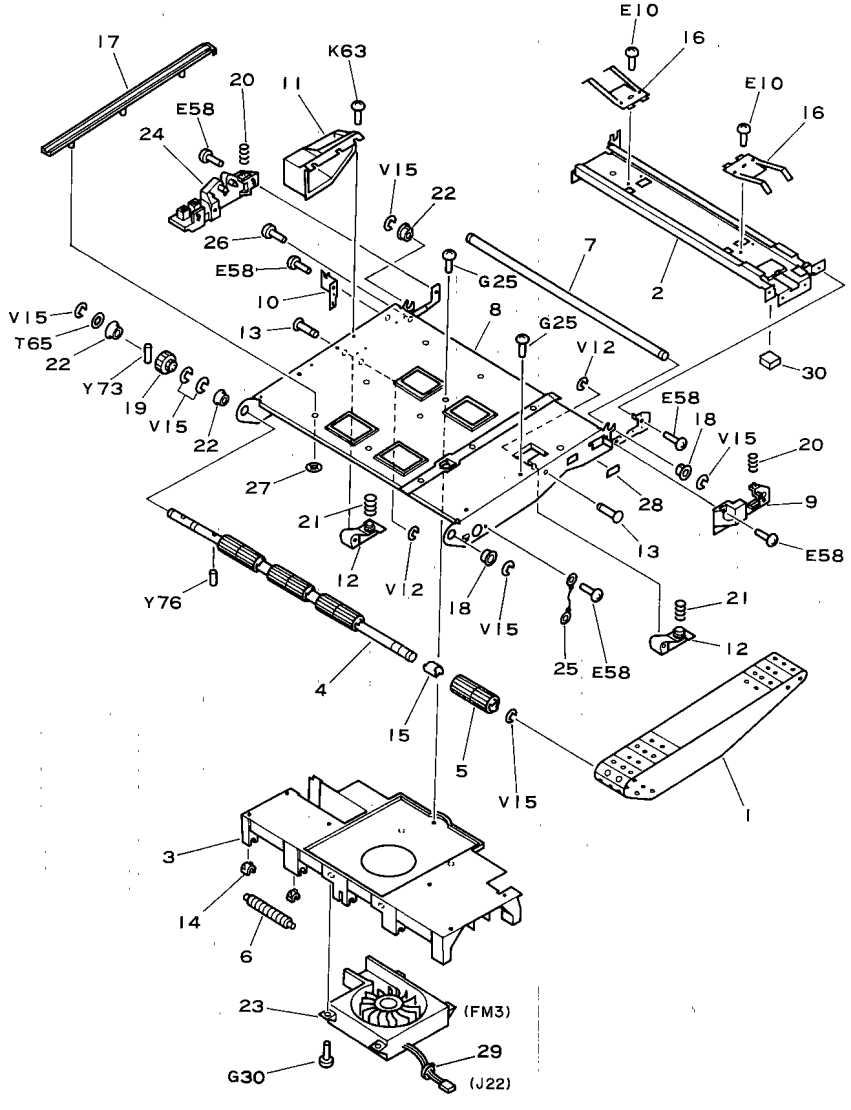


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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
326 –	FG1–7388–000		1	MANUAL FEED PAPER GUIDE ASS'Y デザシ ガイド ブ (ウエ)	
1	FA5–1831–020		1	PLATE, PAPER GUIDE, UPPER デザシ ウエ ガイド	
2	FA5–1832–000		1	PLATE, SENSOR MOUNTING デザシ センサ ダイ	
3	FF1–9421–020		1	LEVER, SENSOR デザシ センサ レバー	
4	FF1–9422–020		1	LEVER, MICROSWITCH カイヘイ センサ レバー	
5	FF1–9423–000		4	ROLLER UNIT スリツプ コロ	
6	VS1–0192–005		1	CONNECTOR コネクタ	
7	VS1–0440–003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
8	X62–5370–000		2	SOCKET, FASTON 110, 20–24AWG ファストン	
9	WT1–0026–000		2	SLEEVE, FASTON 110 ファストン スリーブ	
10	FH7–7087–000		1	PHOTO–INTERRUPTER フオトインタラプタ	
11	WC4–0081–000		1	MICROSWITCH マイクロ スイツチ	
12	WT2–0030–000		AR	TIE, CABLE ソクセン バンド	
13	XB1–2231–009		2	SCREW,MACH.,TRUSS HEAD,M2.3X10 ビス M2.3X10	
14	FA5–1839–000		2	INSULATOR フロート コマ	
15	FA5–1840–000		1	SPRING, LEAF アース バネ	
16	FF2–0842–000		1	VARISTOR バリスタ	
17	FF2–0841–000		1	WIRE, GRANDING アース セン	
18	FA5–2158–000		4	PLATE, ADJUSTING チヨウセイ バン	
19	XD1–2100–305		4	PLAIN, WASHER ワツシヤ	
20	FA2–9388–000		4	SCREW, MACH., TRUSS HEAD, M3X5 バインド ネジ	
21	FA5–2136–000		1	SHEET, PAPER GUIDE UPPER 1 ウエ ガイド シート (1)	APB00001–APB02816 BPB00001–BPB01893 CPB00001–CPB01395 DPB00001–DPB00820 FPB00001–FPB00660 DNP00001–DNP01530
22	FA9–1782–000		7	SHEET, PAPER GUIDE UPPER 2 ウエ ガイド シート (2)	APB00001–APB02816 BPB00001–BPB01893 CPB00001–CPB01395 DPB00001–DPB00820 FPB00001–FPB00660 DNP00001–DNP01530

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FIGURE 350 FEEDER ASSEMBLY
搬送部



Note) The part of Key No. 28 in the Figure 350 is not included in the feeder assembly.

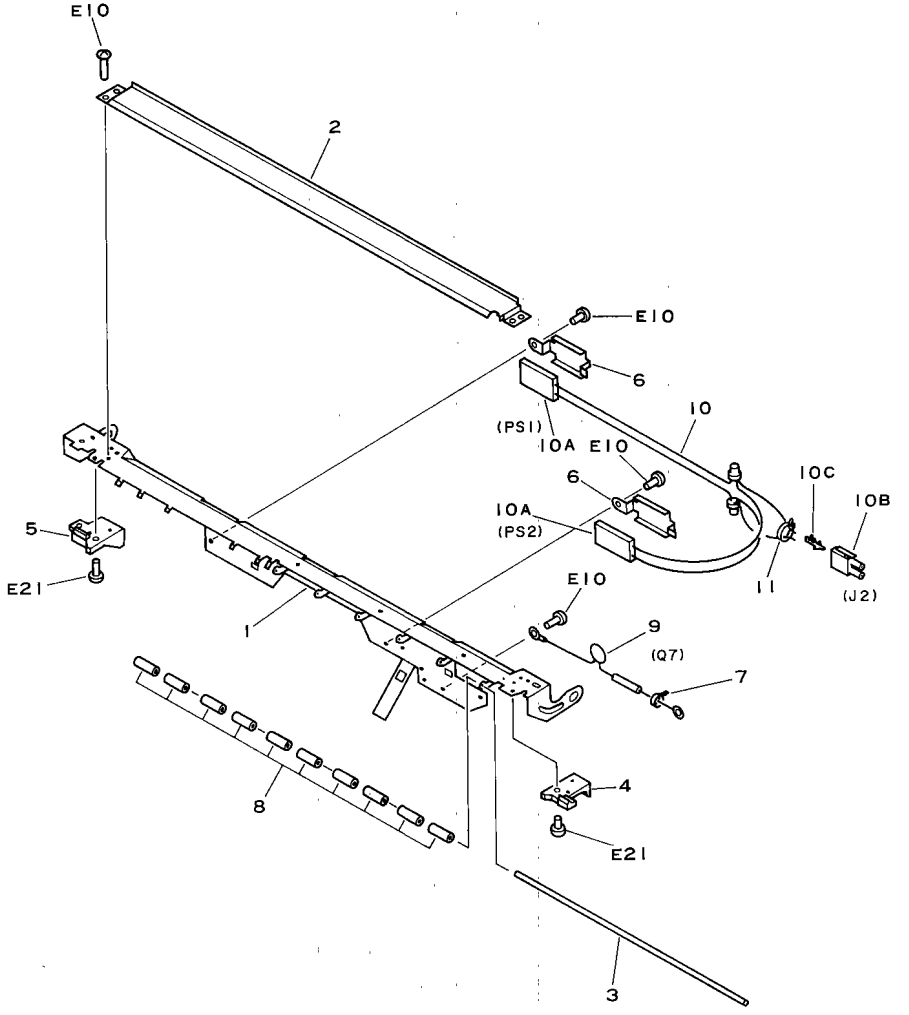
注) 本ユニットにkey No. 28のラベルは含まれません。

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
350 —	FG1-7392-120		1	FEEDER ASSEMBLY ハンソウ ブ	
1	FA5-1891-020		4	BELT, PAPER FEED ハンソウ ベルト	
2	FA5-1892-020		1	PLATE, RAIL, CORONA ASSEMBLY タイデンキ ステイ	
3	FA5-1893-000		1	PLATE, ROLLER HOLD アイドラ シジダイ	
4	FA5-1894-000		1	SHAFT クドウジク	
5	FA5-1895-000		4	PULLEY プーリ	
6	FA5-1896-000		8	PULLEY プーリ	
7	FA5-1897-000		1	ROD ジユウドウジク	
8	FA5-1898-030		1	PLATE, MOUNT, FEEDE ASSEMBLY ハンソウ キダイ	
9	FA5-1900-000		1	PLATE, SIDE, FRONT ツキアテ バン	
10	FA5-1901-000		1	PLATE, SIDE, REAR ツキアテ バン	
11	FA5-1902-000		1	DUCT ダクト	
12	FA5-1903-000		2	ARM, SPRING ハンソウブ ウケアーム	
13	FA5-1904-000		2	ROD, ARM ハンソウブ カム シジク	
14	FA5-1905-000		16	HOLDER, PULLEY ジクウケ	
15	FA5-1906-000		3	COUPLING カップリング	
16	FA5-1907-000		2	SPRING, LEAF ササエ バネ	
17	FA5-1908-000		2	GUIDE, PAPER FEED ハンソウ リブ	
18	FA1-3224-000		2	BUSHING ジクウケ	
19	FS2-0887-000		1	GEAR, 20T 20T ギア	
20	FS2-2782-000		2	SPRING, COMPRESSION アッシュク バネ	
21	FS2-2773-000		2	SPRING, COMPRESSION アッシュク バネ	
22	FS1-1202-000		3	BUSHING ジクウケ	
23	FH7-1529-000		1	FAN, DC24V ファン	
24	FH2-9039-030		1	CONNECTOR, TRANSFER CORONA デンシャ コネクタ	
25	FF2-0666-000		1	CABLE, GROUNDING アース ケーブル	
26	XA9-0192-000		1	SCREW, W/WASHER, M4X6 キクザ ツキ ネジ	
27	XA9-0134-000		6	NUT, PUSH プッシュ ナット	
28	FA1-9972-000		1	LABEL "WARNING, HIGH VOLTAGE" コウアツ チュウイ メイバン	
	FS2-8612-000		1	LABEL "WARNING, HIGH VOLTAGE" コウアツ チュウイ メイバン	JPN
	FS2-8613-000		1	LABEL "WARNING, HIGH VOLTAGE" コウアツ チュウイ メイバン	ENG
29	WT2-0030-000		3	TIE, CABLE ソクセン バンド	
30	FA5-2160-000		1	CUSHION クッション	
31	FA5-1909-000		1	GUIDE, PAPER FEED, FRONT ハンソウ ガイド (マエ)	

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FIGURE 351 TRANSFER GUIDE ASSEMBLY
転写ガイド部

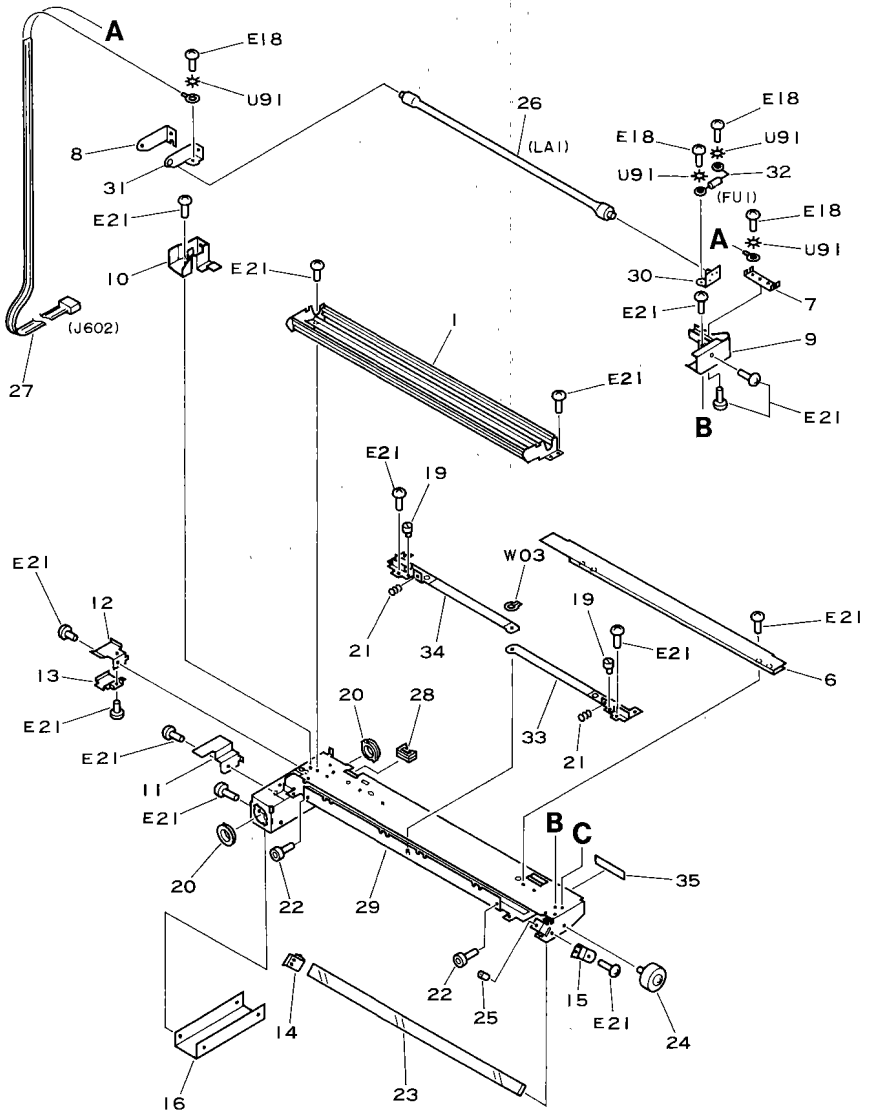


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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
351 –	FG1–7390–030		1	TRANSFER GUIDE ASSEMBLY テンシャ ガイド ブ	100V
	FG1–8392–030		1	TRANSFER GUIDE ASSEMBLY テンシャ ガイド ブ	115/220/240V
1	FA5–1851–020		1	PLATE, PAPER GUIDE, LOWER テンシャ シタ ガイド	
2	FA5–1852–000		1	PLATE, PAPER GUIDE, UPPER テンシャ ウエ ガイド	
3	FA5–1853–000		1	ROD, ROLLER コロ ジク	
4	FA5–1854–000		1	BLOCK, FRONT ツキアテ ブ ロック (マエ)	
5	FA5–1855–000		1	BLOCK, REAR ツキアテ ブ ロック (ウシロ)	
6	FA5–1856–000		2	PLATE, HEATER HOLDER ヒータ ホルダ	100V
7	WT2–0030–000		AR	TIE, CABLE ソクセン バンド	
8	FA4–5594–000		10	ROLLER テンシャ コロ	
9	FF2–0658–000		1	VARISTOR, 560V バリスタ	
10	FF9–0971–000		1	CABLE ASSEMBLY テンシャ ガイド タバ セン	100V
10A	FH7–4241–000		2	HEATER, 10W ヒータ	
10B	VS4–0001–002		1	CONNECTOR, 2P, MALE コネクタ (オス)	J2
10C	WS4–0219–000		2	PIN CONTACT, 18–22AWG ピン コンタクト	
11	WT2–0435–000		1	CLAMP, CORD コード オサエ	

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FIGURE 400 MIRROR ASSEMBLY 1
第1ミラー台部

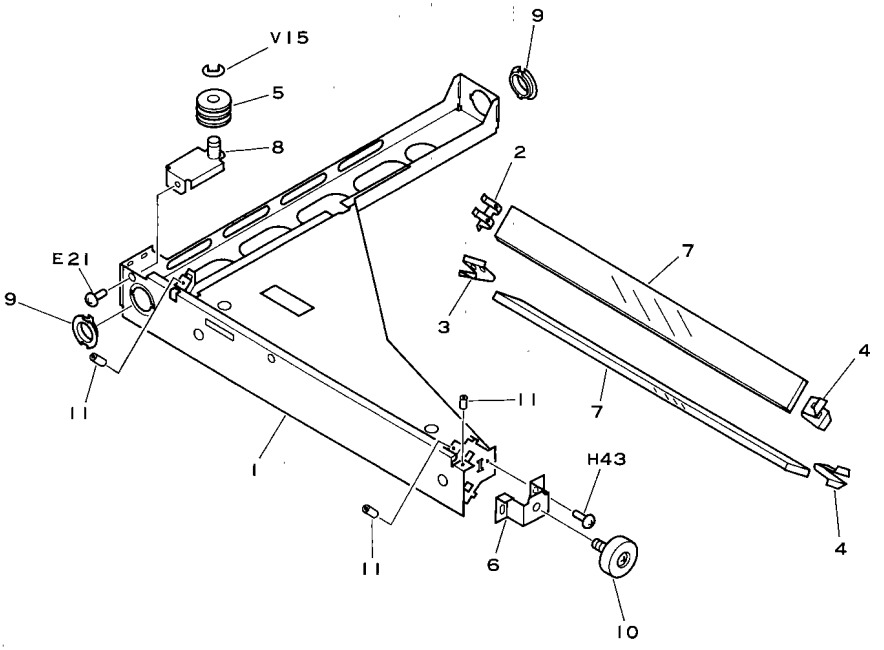


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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
400 —	NPN		RF	MIRROR ASSEMBLY 1 ダイ 1 ミラー ダイブ	
1	FG9-3177-000		1	MOUNT, MIRROR ミラー ダイ	
6	FA5-1626-000		1	PLATE, BLACK ハンシャ ボウシ バン	
7	FA5-1628-000		1	TERMINAL, FUSE ヒューズ デンキヨク	
8	FA5-1630-000		1	SPRING, LEAF, TERMINAL デンキヨク オサエ バン	
9	FA5-1631-020		1	MOUNT, TERMINAL, FRONT デンキヨク ダイ (マエ)	
10	FA5-1632-000		1	MOUNT, TERMINAL, REAR デンキヨク ダイ (ウシロ)	
11	FA5-1633-030		1	PLATE, LIGHT-BLOCKING シゲナル プレート	
12	FA5-1634-000		1	RETAINER, CORD A コード オサエ (A)	
13	FA5-1635-000		1	RETAINER, CORD B コード オサエ (B)	
14	FA5-1636-000		1	SPRING, LEAF, REAR ミラー オサエ バネ (ウシロ)	
15	FA5-1637-000		1	SPRING, LEAF, FRONT ミラー オサエ バネ (マエ)	
16	FA5-1638-000		1	PLATE ホキヨウ バン	
19	FA5-1650-000		2	SCREW, ADJUSTING ヘンジン ネジ	
20	FS1-1593-000		2	BUSHING ジク ウケ	
21	FS2-2788-000		2	SPRING, COMPRESSION アツシュク バネ	
22	FS5-9005-000		2	SCREW, ALLEN HEAD, M3X4.5 ロツカク アナツキ ボルト	
23	FN1-4212-000		1	MIRROR 1 ダイ 1 ミラー	
24	XG9-0089-000		1	ROLLER, GUIDE ガイド ローラ	
25	X31-6240-880		1	SCREW トメ ネジ	
26	FH7-3113-000		1	HALOGEN LANP, 80V 300W ハロゲン ランプ	100V/115V
	FH7-3114-000		1	HALOGEN LANP, 175V 330W ハロゲン ランプ	220V/240V
27	FH2-5298-000		1	CABLE ソクセン	
28	WT2-0296-000		1	CLIP, CABLE エツジ サドル	
29	FF1-9383-020	N	1	MOUNT, MIRROR 1 ダイ 1 ミラー ダイ	
30	FF1-9385-000		1	TERMINAL, LANP, FRONT ランプ デンキヨク (マエ)	
31	FF1-9386-000		1	TERMINAL, LANP, REAR ランプ デンキヨク (ウシロ)	
32	FF1-9387-000		1	FUSE, THERMAL, 103C° オンド ヒューズ	
33	FF2-0013-000		1	PLATE, SLIT A スリット (A)	
34	FF2-0014-000		1	PLATE, SLIT B スリット (B)	
35	FS4-8107-000		1	LABEL, THERMAL FUSE オンド ヒユウズ ラベル	

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FIGURE 401 MIRROR ASSEMBLY 2
第2ミラー台部

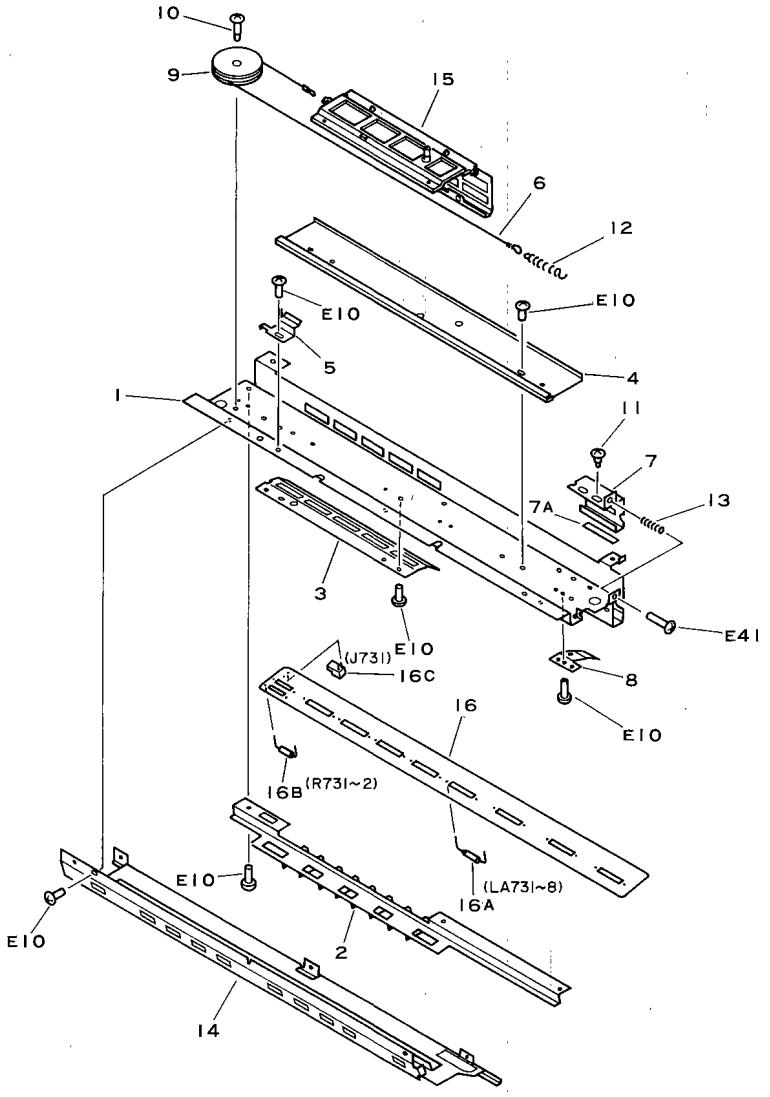


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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
401 –	NPN		RF	MIRROR ASSEMBLY, 2 ダイ 2 ミラー ダイ ブ	
1	FA5-1641-000	N	1	MOUNT, MIRROR 2 ダイ 2 ミラー ダイ	
2	FA5-1642-000		1	SPRING, LEAF, 2 REAR ダイ 2 ミラー オサエ バネ (ウシロ)	
3	FA5-1643-000		1	SPRING, LEAF, 3 REAR ダイ 3 ミラー オサエ バネ (ウシロ)	
4	FA5-1644-000		2	SPRING, LEAF, 2/3 FRONT ダイ 2/3 ミラー オサエ バネ (マエ)	
5	FA5-1646-000		1	PULLEY プーリ	
6	FA5-1647-000		1	PLATE, ADJUSTING チョウセイ イタ	
7	FN1-4213-000		2	MIRROR 2/3 ダイ 2,3 ミラー	
8	FF1-9388-000		1	MOUNT, PULLY プーリ ダイ	
9	FS1-1593-000		2	BUSHING ジク ウケ	
10	XG9-0089-000		1	ROLLER, GUIDE ガイド ローラ	
11	X31-6241-080		4	SETSCREW, M4X8 ロッカク アナツキ トメネジ	

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FIGURE 450 BLANK EXPOSURE LAMP ASSEMBLY
ブランク露光部

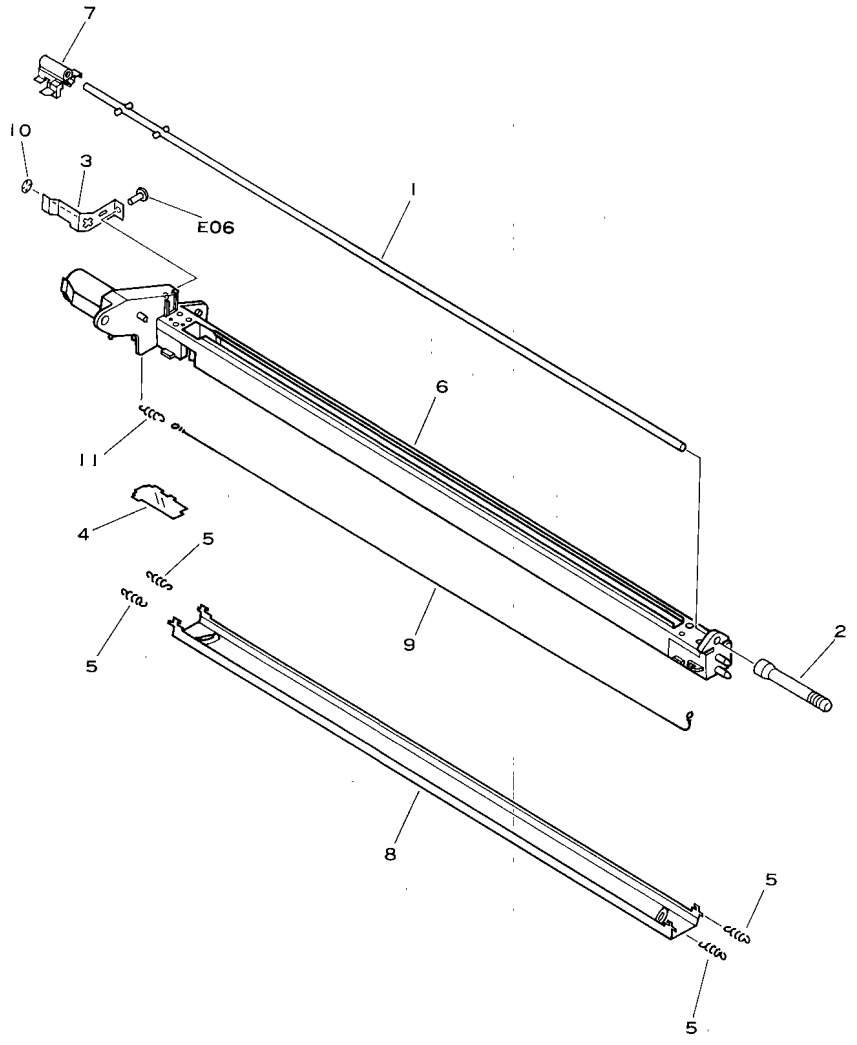


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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
450 –	FG1–7379–070	N	1	BLANK EXPOSURE ASSEMBLY ブランク ロコウ ブ	
1	FA5–1726–000		1	MOUNT, BLANK ブランク ダイ	
2	FA5–1728–000		1	HOLDER, BLANK ブランク ホルダ ー	
3	FA5–1732–000		1	MIRROR, BLANK ブランク ミラー	
4	FA5–1733–000		1	RAIL, SLIT スリット レール	
5	FA5–1734–000		1	STOP ストッパ	
6	FA5–1735–000		1	BLANK DRIVE WIRE, BARE ブランク クド ウ ワイヤ	
7	FF9–0959–000		1	ADJUSTING SLIT チヨウセイ スリット	
7A	FA5–1745–000		1	SEAL, LIGHT BLOCKING シャコウ シール	
8	FA5–1738–000		1	REFLECTOR, BLANK STRIP シャープ カット ハンシャ バ ン	
9	FA5–1739–000		1	PULLEY プ ーリ	
10	FS1–9102–000		1	SCREW, STEPPED, M3 ダ ンピ ス	
11	FS1–9265–000		2	SCREW M3X0.8 ダ ン ピ ス	
12	FS2–2764–000		1	SPRING, TENSION ヒッパ リ バ ネ	
13	FS2–2765–000		1	SPRING, COMPRESSION アッシュク バ ネ	
14	FF1–9401–020		1	BLANK HOLDER UNIT ブランク ホルダ	
15	FF1–9402–000		1	SLIT UNIT スリット	
16	FG1–7416–000		1	PRE–CON. EXPOSURE PCB ASS'Y マエ ロコウ キバ ン	
16A	FH7–3116–000		8	LAMP, 6V200MA ヒューズ ランプ	
16B	VR5–0780–689		2	RESISTOR, 6.8 OHM, 1W テイコウ	
16C	WS3–0613–000		1	PIN ASSEMBLY, 2P ピ ン アセンブ リ	

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FIGURE 550 PRIMARY CORONA ASSEMBLY
一次帯電器

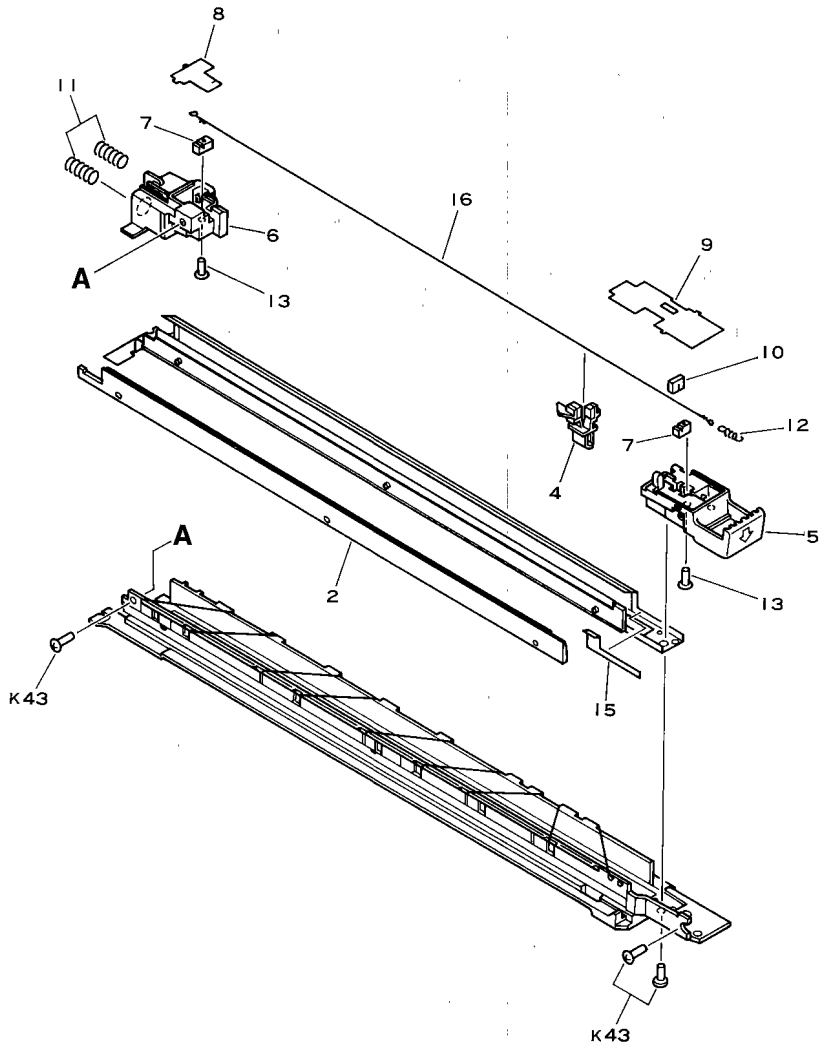


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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
550 –	NPN		RF	PRIMARY CORONA ASSEMBLY イチジ タイデンキ	
1	FA6–5139–000		1	ROD クリーナ ロッド	
2	FA6–5266–000		1	HANDLE クリーナ ツマミ	
3	FA5–1711–000		1	PLATE シールド バン	
4	FA5–1715–000		1	COVER, WIRE TERMINATION ブロック フタ	
5	FS2–2789–000		4	SPRING, TENSION ヒッパリバネ	
6	FF1–9397–050		1	FRAME タイデンキ	
7	FF2–4001–000		1	CORONA WIRE CLEANER UNIT クリーナ	
8	FF1–9399–020		1	PLATE, GRID グリッド	
9	FY3–0030–000		AR	WIRE, CORONA, 0.06MM (20M) タイデンキ ワイヤ	100V
	FY3–0040–000		AR	WIRE, CORONA, 0.06MM (20M) タイデンキ ワイヤ	115V/220V/240V
10	XA9–0135–000		1	PUSH NUT ブッシュ ナット	
11	FS2–2763–000		1	SPRING, TENSION ヒッパリバネ	

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FIGURE 560 TRANSFER CORONA ASSEMBLY
転写帯電器

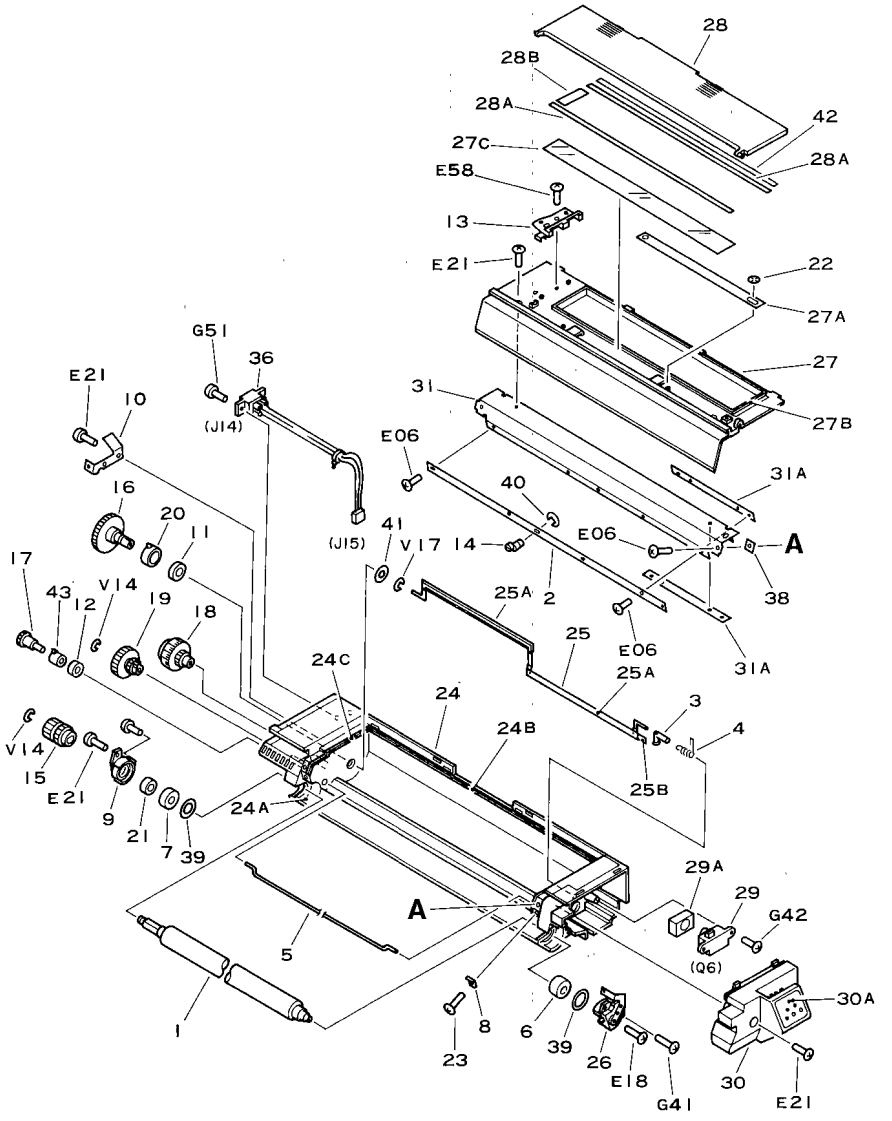


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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
560 –	FG1–7391–120		1	TRANSFER CORONA ASSEMBLY テンシャ タイデ ンキ	
2	FF1–9438–050		1	PLATE, STATIC CHARGE ELIM R ジ ヨデ ン シン バ ン	
4	FF1–9440–030		1	CLEANING UNIT クリーナ	
5	FF1–9441–020		1	WIRE TERMINATION FRONT テンシャ ブ ロツク (マエ)	
6	FA5–1862–000		1	WIRE TERMINATION REAR テンシャ ブ ロツク (ウシロ)	
7	FA5–1873–000		2	GUIDE, CORONA WIRE タカサ チヨウセイ コマ	
8	FA5–1874–020		1	COVER, WIRE TERMINATION REAR ブ ロツク フタ (ウシロ)	
9	FA5–1875–020		1	COVER, WIRE TERMINATION FRONT ブ ロツク フタ (マエ)	
10	FA5–1878–000		1	DAMPER, RUBBER ボ ウシン ゴ ム	
11	FS2–2781–000		2	SPRING, COMPRESSION アツシユク バ ネ	
12	97–5527–000		1	SPRING, TENSION, CORONA WIRE タイデ ンセン ヒツパ リ バ ネ	
13	XA9–0159–000		2	SCREW, FT, C.S, HEAD, M3X12 FT ネジ	
15	FA5–1882–000		1	PLATE, TRANSFER CORONA, FRONT テンシャ キセイ バ ン (マエ)	
16	FY3–0030–000		AR	WIRE, CORONA, 0.06MM (20M) タイデ ンキ ワイヤ	100V
	FY3–0040–000		AR	WIRE, CORONA, 0.06MM (20M) タイデ ンキ ワイヤ	115V/220V/240V

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FIGURE 640 DEVELOPING ASSEMBLY (BLACK)
現像器（黒）



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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
640 –	FG1–7381–130		1	DEVELOPING ASSEMBLY (BLACK) ゲ ンゾ ウキ (クロ)	
1	FA5–1757–030		1	CYLINDER, DEVELOPING ゲ ンゾ ウ シリンダ	
2	FA5–1758–000		1	BLADE ブ レード	
3	FA5–1763–000		1	HOLDER, STIRRING カクハン ボ ウ フロート	
4	FA5–1764–000		1	SPRING, TORSION ネジ リ バ ネ	
5	FA5–1765–000		1	ROD, STIRRING 2 カク ハン ボ ウ (2)	
6	FA5–1766–000		1	ROLLER, FRONT, SPACER ツキアテ コロ (マエ)	
7	FA5–1767–000		1	ROLLER, REAR, SPACER ツキアテ コロ (オク)	
8	FA5–1768–000		2	SPACER スペ ーサ	
9	FA5–1771–000		1	HOLDER, SLEEVE, REAR スリーブ ホルダ (オク)	
10	FA5–1773–000		1	TERMINAL デ ンキヨク バ ン	
11	FA5–1779–000		1	SEAL 1 ギ ア シール 1	
12	FA5–1780–000		1	SEAL 2 ギ ア シール 2	
13	FA5–1787–000		1	STOP, CARTRIDGE カートリッジ ロック	
14	FA5–1762–000		1	BOSS ボ ス	
15	FS2–0870–000		1	GEAR, 19T 19T ギ ア	
16	FS2–0871–000		1	GEAR, 45T 45T ギ ア	
17	FS2–0872–020		1	GEAR, 14T 14T ギ ア	
18	FS2–0873–000		1	GEAR, 17T 17T ギ ア	
19	FS2–0874–000		1	GEAR, 30T 30T ギ ア	
20	FS1–1594–000		1	BUSHING ジ ク ウケ	
21	XG9–0177–000		1	BALL BEARING ベ アリング	
22	XD2–2300–402		2	PUSH NUT トメワ	
23	XA1–7300–604		8	SCREW, SELF–TAPPING タッピ ン ネジ	
24	FF1–9405–000	N	1	HOUSING, DEVELOPING ASSEMBLY ゲ ンゾ ウ ヨウキ	
24A	FA5–1769–000		2	SEAL, FOAM 1 タンプ シール (1)	
24B	FA5–1781–000		1	SEAL, CONTAINER ヨウキ シール	
24C	FA5–1782–000		2	SEAL, SIDE サイド シール	
25	FF1–9406–000		1	ROD, STIRRING 1 カク ハン ボ ウ (1)	
25A	FA5–1761–000		1	SHEET カク ハン シート	
25B	FA9–1778–000		1	SHEET シート	
26	FF1–9407–000		1	HOLDER, SLEEVE FRONT スリーブ ホルダ (マエ)	
27	FF1–9408–000		1	COVER, DEVELOPING ゲ ンゾ ウキ カバ ー	
27A	FA5–1777–000		1	STRAP, LIFTING トツテ シート	
27B	FA5–1785–000		1	SEAL, COVER カバ ー シール	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
640 – 27C	FA5–1789–000		1	SHEET シート	
28	FF1–9409–000		1	LID, DEVELOPING ゲ ンゾ ウキ フタ	
28A	FA5–1783–000		2	SEAL 1 シール (1)	
28B	FA5–1784–000		1	SEAL 2 シール (2)	
29	FF1–9410–000		1	SENSOR, TONER トナー センサ	
29A	FA5–1778–000		1	SEAL, SENSOR センサ シール	
30	FF1–9411–000		1	HANDLE トツテ	
30A	FS4–8106–000		1	LABEL, TONER トナー メイハン	
31	FF2–0018–000		1	MOUNT, BLADE ブ レード ダ イ	
31A	FA5–1788–000		4	SHEET シート	
36	FF9–0967–000		1	CABLE ASSEMBLY ソクセン	
38	FA5–1790–000		2	SEAL, FOAM 2 タンブ シール (2)	
39	FA4–2766–000		2	RING, SEAL ポ リエチレン リング	
40	XD2–1200–242		1	E RING トメワ	
41	XD1–1109–721		1	WASHER ワツシヤ	
42	FA5–1793–000		1	SEAL 4 シール (4)	
43	FS1–1598–000		1	BUSHING ジ クウケ	

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FIGURE 650 CT UNIT
CT ユニット

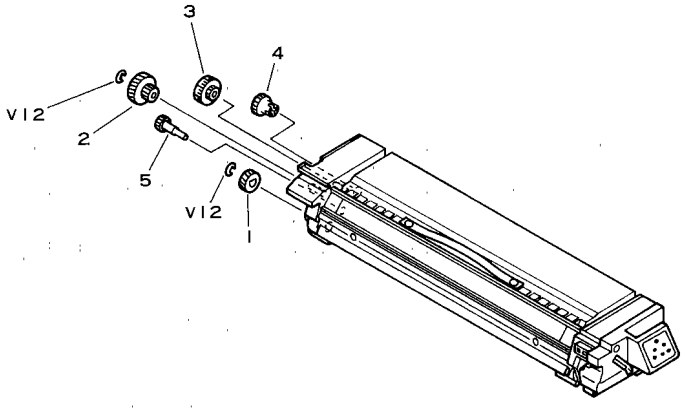
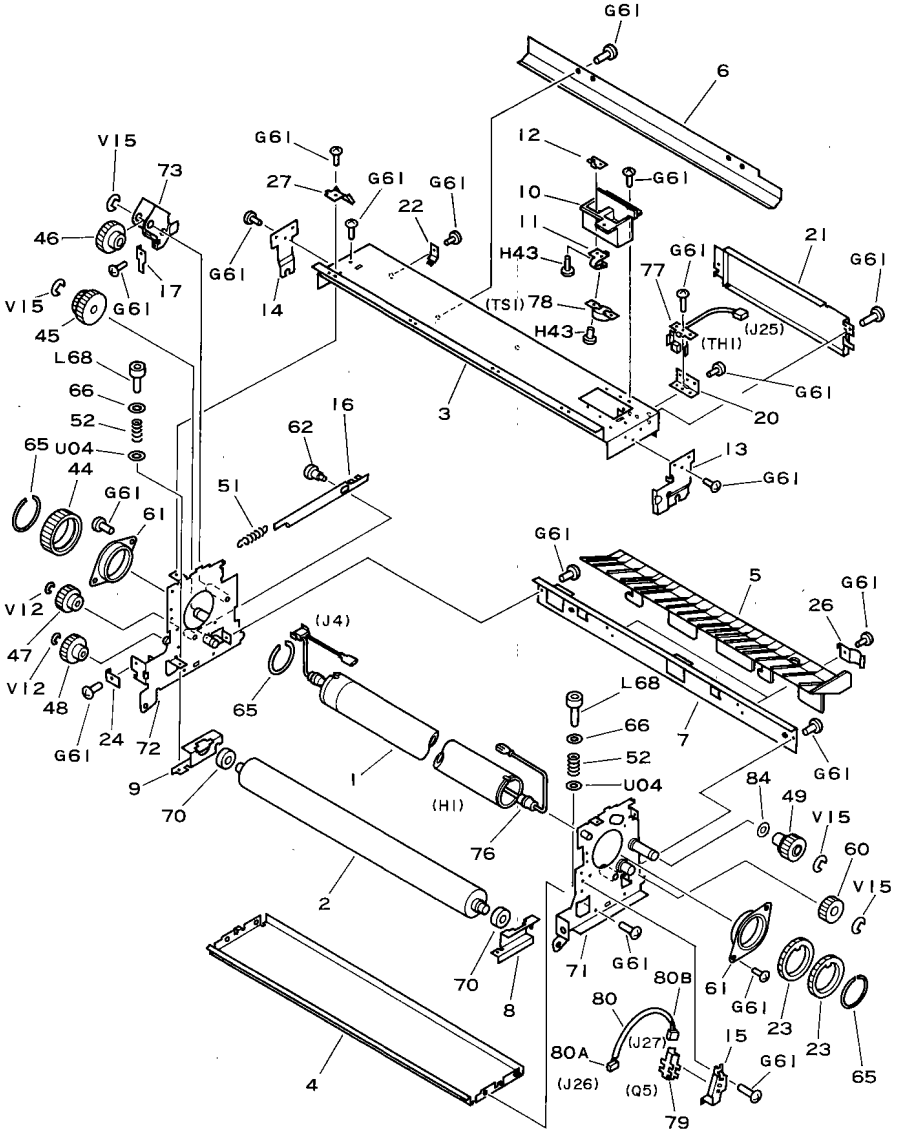


FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
650 –	NPN		RF	CT UNIT CT ユニット	
1	FS2–0882–000		1	GEAR, 19T 19T ギア	
2	FS2–0883–000		1	GEAR, 35T/16T 35T/16T ギア	
3	FS2–0884–000		1	GEAR, 14T/30T 14T/30T ギア	
4	FS2–0885–000		1	GEAR, 20T 20T ギア	
5	FS2–0886–000		1	GEAR, 16T 16T ギア	

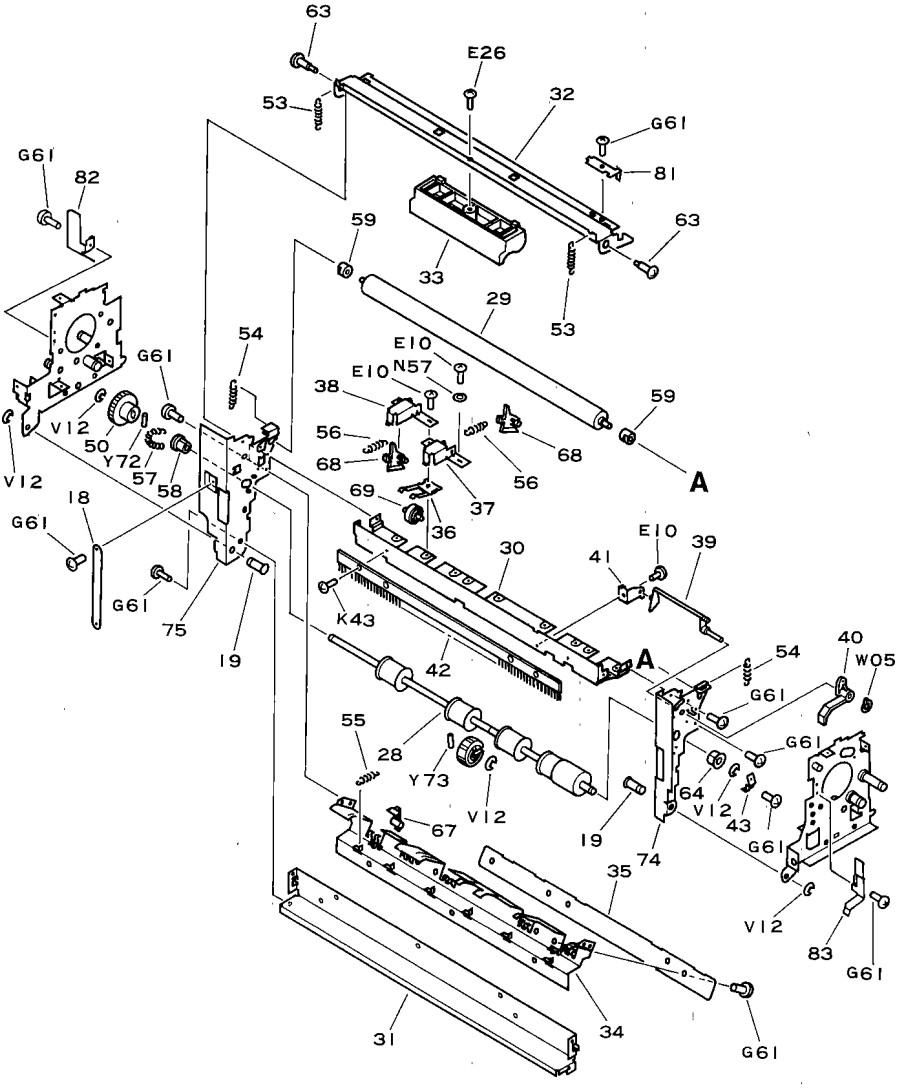
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FIGURE 810 FIXING ASSEMBLY (½)
定着器 (½)



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FIGURE 810 FIXING ASSEMBLY (2/2)
定着器 (2/2)



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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
810 –	FG1–7394–190	N	1	FIXING ASSEMBLY, 100V テイチャク キ	100V
	FG1–7395–200	N	1	FIXING ASSEMBLY, 115V テイチャク キ	115V
	FG1–7396–200	N	1	FIXING ASSEMBLY, 220V テイチャク キ	220V
	FG1–7397–200	N	1	FIXING ASSEMBLY, 240V テイチャク キ	240V
1	FA5–1916–050		1	ROLLER, FIXING, UPPER ウエ ローラ	
2	FA6–3921–000		1	ROLLER, FIXING, LOWER シタ ローラ	
3	FA5–1920–000		1	CROSSMEMBER, UPPER ウエ ステイ	
4	FA5–1921–000		1	CROSSMEMBER, LOWER シタ ステイ	
5	FA5–1922–000		1	GUIDE, PAPER カミ ガイド	
6	FA5–1923–000		1	PLATE, PAPER GUIDE ウエ カミ ガイド バン	
7	FA5–1924–000		1	PLATE, MOUNTING, PAPER GUIDE カミ ガイド トリツケ バン	
8	FA5–1925–000		1	PLATE, ROLLER PRESSURE, FRONT カアツ バン (マエ)	
9	FA5–1926–000		1	PLATE, ROLLER PRESSURE, REAR カアツ バン (ウシロ)	
10	FA5–1927–000		1	HOLDER, THERMOSWITCH サーモ スイッチ ホルダ	
11	FA5–1928–000		2	SPRING, LEAF, THERMOSWITCH サーモ スイッチ デンキヨク バネ	
12	FA5–1930–000		2	PLATE, ELECTRODE デンキヨク バン	
13	FA5–1931–000		1	PLATE, HEATER SUPPORT, FRONT ヒータ ジジ バン (マエ)	
14	FA5–1932–000		1	PLATE, HEATER SUPPORT, REAR ヒータ ジジ バン (ウシロ)	
15	FA5–1935–000		1	MOUNT, PAPER SENSOR カミ ケン センサ トリツケダイ	
16	FA5–1936–000		1	PLATE クドウ カイジョ レバー	
17	FA5–1938–020		1	SPRING, LEAF ホジョ イタ バネ	
18	FA5–1939–000		1	STRAP, DOOR バンド	
19	FA5–1940–000		2	ROD, DOOR SUPPORT ハイシ ジジク	
20	FA5–1941–000		1	PLATE, THERMISTOR MOUNTING サーミスタ トリツケバン	
21	FA5–1942–000		1	PLATE, SENSOR COVER センサー カバー	
22	FA5–1943–000		1	ELIMINATOR, STATIC CHARGE テイデンキ ロール ジョデンブラシ	
23	FA5–1944–000		2	GEAR, 40T 40T ギア	
24	FA5–1945–000		1	PLATE, STRAP HOLD バンド オサエ	
26	FA5–1947–000		2	SPRING, LEAF ガイド イタバネ	
27	FA5–1948–000		4	PLATE, HOLDER, CABLE ケーブル オサエ	
28	FA5–1951–000		1	ROLLER, DELIVERY ハイシ ローラ	
29	FA5–1952–000		1	ROLLER, OIL オイル トフ ローラ	
30	FA6–4681–000		1	CROSSMEMBER, DELIVERY, UPPER ハイシ ウエ ステイ	
31	FA5–1956–000		1	CROSSMEMBER, DELIVERY, LOWER ハイシ シタ ステイ	
32	FA5–1949–000		1	PLATE, LATCH トツテ ステイ	115V/220V/240V

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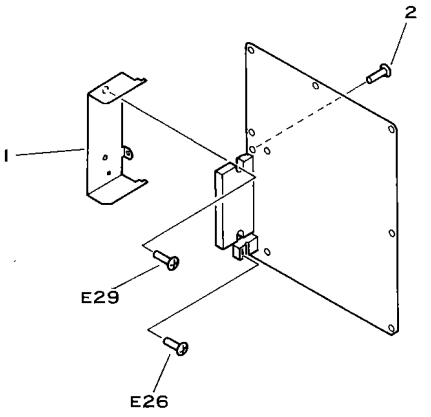
FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
810 – 32	FA5–1957–000		1	PLATE, LATCH トツテ ステイ	
33	FA5–1958–000		1	HANDLE, LATCH RELEASE トツテ	
34	FA6–4682–000		1	PLATE, CLAW MOUNTING, LOWER シタ ブ シリツメ トリツケ ダイ	
35	FA5–1950–000		1	PLATE, HOLDER, CLAW シタ ブ シリツメ オサエ	115V/220V/240V
	FA5–1960–000		5	PLATE, HOLDER, CLAW シタ ブ シリツメ オサエ	
36	FA6–4685–000		4	PLATE, HOLDER, ROLLER コロ ジク シバン	
37	FA6–4683–000		4	PLATE, HOLDER, CLAW ウエ ブ シリツメ ホルダ	
38	FA6–4684–000		1	PLATE, HOLDER, CLAW ウエ ブ シリツメ ホルダ	
39	FA5–1966–000		1	LEVER, PAPER DETECTION ケンチ レバー	
40	FA5–1967–000		1	LEVER, LIGHT–BLOCKING, SENSOR センサ レバー	
41	FA5–1968–000		1	PLATE, HOLDER, ROD レバー ジク シバン	
42	FA5–1969–000		2	ELIMINATOR, STATIC CHAGE ジョデン ブラシ	
43	FA5–1970–000		1	SPRING, LEAF アース イタバネ	
44	FS2–0888–000		1	GEAR, 40T 40T ギア	
45	FS2–0891–020		1	GEAR, 30/20T 30/20T ギア	
46	FS2–0890–020		1	GEAR, 29T 29T ギア	
47	FS2–0892–000		1	GEAR, 18T 18T ギア	
48	FS2–0894–000		1	GEAR, 23T 23T ギア	
49	FS2–0893–000		1	GEAR, 24T 24T ギア	
50	FS2–0895–000		1	GEAR, 26T 26T ギア	
51	FS2–2774–000		1	SPRING, TENSION ヒツパリバネ	
52	FS2–2775–000		2	SPRING, COMPRESSION アツシユク バネ	
53	FS2–2776–000		2	SPRING, TENSION ヒツパリバネ	
54	FS2–2777–000		2	SPRING, TENSION ヒツパリバネ	
55	FS2–2778–000		5	SPRING, TENSION ヒツパリバネ	
56	FS3–2780–000		5	SPRING, TENSION ヒツパリバネ	
57	FS2–2161–000		1	SPRING, TENSION ヒツパリバネ	
58	FS1–1596–000		1	BUSHING ジク ウケ	
59	FS1–1597–000		2	BUSHING ジク ウケ	
60	FS1–0884–000		1	GEAR, 22T 22T ギア	
61	FS1–1240–000		2	BUSHING ブツシング	
62	FS1–9120–000		1	SCREW, STEPPED, M3 ダンピス	
63	FS1–9005–000		2	SCREW, STEPPED, M4 ダンピス	
64	FS1–1205–000		1	BUSHING ブツシング	
65	FA9–1934–000		3	RETAINING RING トメ リング	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
810 – 66	FA2–9078–000		2	SPRING バネ ザ	
67	FA2–9037–000		5	CLAW, SEPARATION, LOWER ブンリ ツメ (シタ)	
68	FB1–0301–000		5	SEPARATION CLAW, UPPER ブンリ ツメ (ウエ)	
69	FB1–0303–000		4	ROLLER, DELIVERY, UPPER ハイシ コロ	
70	XG9–0172–000		2	BEARING, BALL ボールベアリング	
71	FF1–9446–030	N	1	PLATE, FRONT, FIXING ASSEMBLY マエ ソクバン	
72	FF1–9447–020	N	1	PLATE, REAR, FIXING ASSEMBLY ウシロ ソクバン	
73	FF1–9448–020		1	GEAR UNIT カイテン バン	
74	FF1–9449–000	N	1	PLATE, FRONT, DELIVERY DOOR ハイシ マエ ソクバン	
75	FF1–9450–000	N	1	PLATE, REAR, DELIVERY DOOR ハイシ ウシロ ソクバン	
76	FH7–4237–020		1	HEATER, 100V 900W ヒータ	100V
	FH7–4238–020		1	HEATER, 115V 900W ヒータ	115V
	FH7–4239–020		1	HEATER, 220V 900W ヒータ	220V
	FH7–4240–020		1	HEATER, 240V 900W ヒータ	240V
77	FH7–7127–000		1	THERMISTOR サーミスタ	
78	FH7–7083–000		1	THERMOSWITCH サーモ スイッチ	
79	FH7–7087–000		1	PHOTO–INTERRUPTER フォトインタラプタ	
80	FF9–0972–000		1	CABLE ASSEMBLY ハイシ センサ タバセン	
80A	VS1–0066–003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	J26
80B	VS1–0440–003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	J27
81	FA5–1971–000		1	PLATE, SUPPORT オサエ イタ	
82	FA5–1973–000		1	GEAR COVER, REAR ギア カバー (ウシロ)	
83	FA5–1974–000		1	GEAR COVER, FRONT ギア カバー (マエ)	
84	XD1–1108–231		1	WASHER ワッシャ	

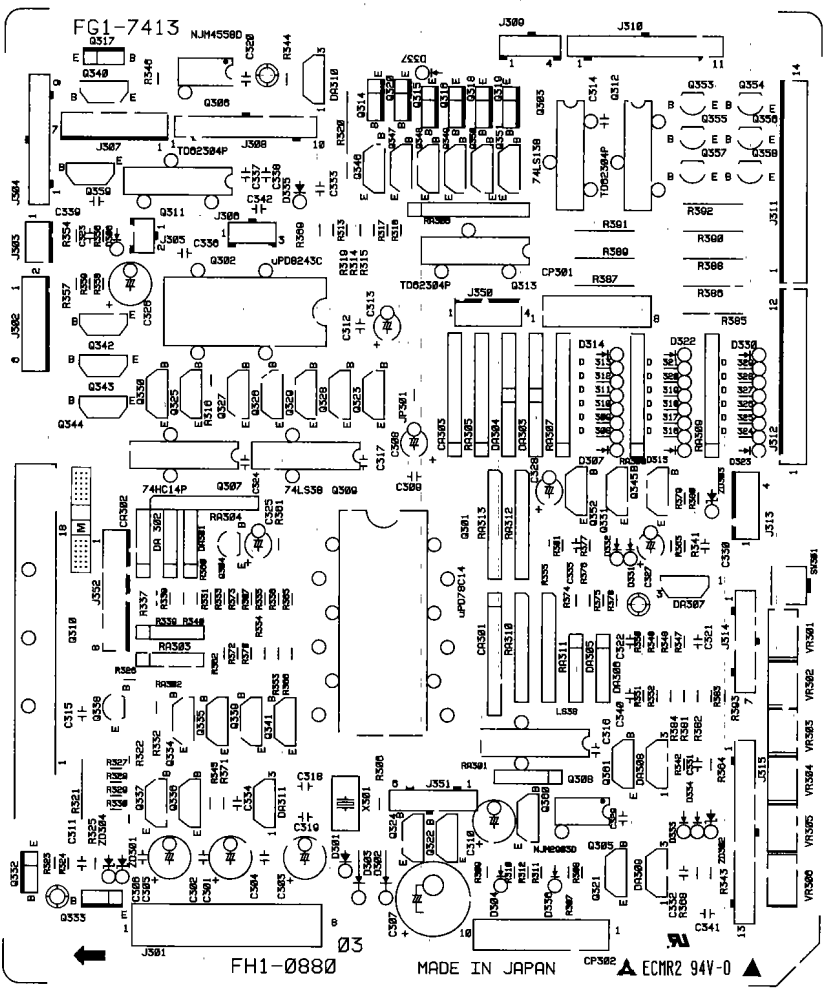
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FIGURE 930 DC CONTROLLER PCB ASSEMBLY (½)
DCコントローラ回路基板 (½)



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FIGURE 930 DC CONTROLLER PCB ASSEMBLY (2/2)
DCコントローラ回路基板 (2/2)



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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
930 –	FG1–7413–070		1	DC CONTROLLER PCB ASSEMBLY DC コントローラ カイロ キバン	
1	FA5–2026–000		1	HEATSINK ホウネツ バン	
2	FA2–9388–000		2	SCREW, MACH., TRUSS HEAD, M3X5 バインド ネジ	
C301	VC1–2351–107		1	ELECT.CAPACITOR, 100UF, 35V コンデンサ	
C302	VC9–5047–000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C303	VC1–2101–107		1	CAPACITOR, 100UF, 10V コンデンサ	
C304	VC9–5047–000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C305	VC1–2501–107		1	CAPACITOR, 100UF 50V コンデンサ	
C306	VC9–5047–000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C307	VC9–1589–000		1	CAPACITOR, 0.047F, 5.5V コンデンサ	
C308	VC6–5990–335		1	CAPACITOR, 3.3UF, 16V コンデンサ	
C309	VC4–4504–103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
C310	VC1–2351–476		1	CAPACITOR, 47UF, 35V コンデンサ	
C311	VC4–3503–221		1	CAPACITOR, 220PF, 50V コンデンサ	
C312	VC4–4504–103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
C313	VC6–5990–335		1	CAPACITOR, 3.3UF, 16V コンデンサ	
C314	VC4–4504–103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
C315	VC4–4504–103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
C316	VC4–4504–103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
C317	VC4–4504–103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
C318	VC4–1501–100		1	CAPACITOR, 10PF, 50V コンデンサ	
C319	VC4–1501–100		1	CAPACITOR, 10PF, 50V コンデンサ	
C320	VC4–4504–103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
C321	VC9–5047–000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C322	VC9–1346–000		1	CAPACITOR, 0.047UF, 50V コンデンサ	
C323	VC9–5047–000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C324	VC4–4504–103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
C325	VC1–2161–106		1	CAPACITOR, 10UF 16V コンデンサ	
C326	VC1–2101–107		1	CAPACITOR, 100UF, 10V コンデンサ	
C327	VC1–2501–105		1	CAPACITOR, 1UF, 50V コンデンサ	
C328	VC1–2251–475		1	CAPACITOR, 4.7UF, 25V コンデンサ	
C329	VC4–4504–103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
C330	VC4–3503–102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C331	VC4–3503–102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C332	VC4–3503–102		1	CAPACITOR, 1000PF, 50V コンデンサ	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
930 -C333	VC4-3503-102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C334	VC4-3503-102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C335	VC4-3503-102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C336	VC4-3503-101		1	CAPACITOR, 100PF, 50V コンデンサ	
C337	VC4-4504-103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
C338	VC4-4504-103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
C339	VC4-4504-103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
C340	VC4-4504-103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
C341	VC9-5047-000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C342	VC9-5047-000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C343	VC4-3503-102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C344	VC4-3503-102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C345	VC4-3503-102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C346	VC4-3503-102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C347	VC4-3503-102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C348	VC4-4504-103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
CA301	VC5-1840-102		1	CAPACITOR ARRAY, 1000PF 50V コンデンサ アレイ	
CA302	VC5-7600-102		1	CAPACITOR ARRAY, 1000PF 50V コンデンサ アレイ	
CA303	VC5-1840-102		1	CAPACITOR ARRAY, 1000PF 50V コンデンサ アレイ	
CP301	VS3-0034-008		1	CONNECTOR, 8P, FEMALE コネクタ (メス)	
CP302	VS3-0034-010		1	CONNECTOR, 10P, FEMALE コネクタ (メス)	
D301	WA1-0474-000		1	DIODE, S5566B ダイオード	
D302	WA1-0768-000		1	DIODE, HRP22 ダイオード	
D303	WA1-0768-000		1	DIODE, HRP22 ダイオード	
D304	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D306	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D307	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D308	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D309	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D310	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D311	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D312	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D313	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D314	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D315	WA1-0887-000		1	DIODE, 1SS270A ダイオード	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
930 -D316	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D317	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D318	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D319	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D320	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D321	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D322	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D323	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D324	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D325	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D326	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D327	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D328	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D329	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D330	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D331	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D332	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D333	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D334	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D335	WA1-0474-000		1	DIODE, S5566B ダイオード	
D336	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D337	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D338	WA1-0474-000		1	DIODE, S5566B ダイオード	
DA301	WA1-0023-000		1	DIODE, ARRAY, DAN401 ダイオード アレイ	
DA302	WA1-0024-000		1	DIODE, ARRAY, DAN401 ダイオード アレイ	
DA303	WA1-0705-000		1	DIODE ARRAY, DAN801 ダイオード アレイ	
DA304	WA1-0706-000		1	DIODE ARRAY, DAP801 ダイオード アレイ	
DA305	WA1-0023-000		1	DIODE, ARRAY, DAN401 ダイオード アレイ	
DA306	WA1-0024-000		1	DIODE, ARRAY, DAN401 ダイオード アレイ	
DA307	WA1-0707-000		1	DIODE ARRAY, DA210S ダイオード アレイ	
DA308	WA1-0707-000		1	DIODE ARRAY, DA210S ダイオード アレイ	
DA309	WA1-0707-000		1	DIODE ARRAY, DA210S ダイオード アレイ	
DA310	WA1-0707-000		1	DIODE ARRAY, DA210S ダイオード アレイ	
DA311	WA1-0707-000		1	DIODE ARRAY, DA210S ダイオード アレイ	
J301	VS1-0025-008		1	PIN ASSEMBLY, 8P (W) ピン アセンブリ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
930 -J302	WS3-0423-000		1	PIN ASSEMBLY, 6P (W) ピン アセンブリ	
J303	WS3-0580-000		1	PIN ASSEMBLY, 2P ピン アセンブリ	
J304	VS1-0437-009		1	CONNECTOR, 9P コネクタ	
J305	VS1-0437-002		1	CONNECTOR, 2P コネクタ	
J306	VS1-0437-003		1	CONNECTOR, 3P コネクタ	
J307	WS3-0424-000		1	PIN ASSEMBLY, 7P (W) ピン アセンブリ	
J308	VS1-0437-010		1	CONNECTOR, 10P コネクタ	
J309	VS1-0437-004		1	CONNECTOR, 4P コネクタ	
J310	VS1-0437-011		1	CONNECTOR, 11P コネクタ	
J311	WS1-0154-000		1	PIN ASSEMBLY, 14P ピン アセンブリ	
J312	WS3-0427-000		1	PIN ASSEMBLY, 12P ピン アセンブリ	
J313	WS3-0421-000		1	PIN ASSEMBLY, 4P ピン アセンブリ	
J314	VS1-0437-007		1	CONNECTOR, 7P コネクタ	
J315	VS1-0437-013		1	CONNECTOR, 13P コネクタ	
J350	WS3-0421-000		1	PIN ASSEMBLY, 4P ピン アセンブリ	
J351	VS1-0437-006		1	CONNECTOR, 6P コネクタ	
J352	WS3-0425-000		1	PIN ASSEMBLY, 8P (W) ピン アセンブリ	
JP301	VR5-3680-000		1	RESISTOR, 0 OHM, 1/4W テイコウ	
Q301	FH4-1047-020		1	CPU, UPD78C14G-093-36 CPU	
Q302	WA3-1632-000		1	LSI, UPD82C43HC LSI	
Q303	WA3-0822-000		1	IC, HD74LS138P IC	
Q304	WA4-0516-000		1	IC, PST518A IC	
Q305	WA4-0233-000		1	IC, NJM2903D IC	
Q306	WA4-0367-000		1	IC, UPC358 IC	
Q307	WA3-5005-000		1	IC, 74HC14 IC	
Q308	WA3-1116-000		1	IC, HD74LS38P IC	
Q309	WA3-1116-000		1	IC, HD74LS38P IC	
Q310	WA4-0572-000		1	IC, SI-7300A IC	
Q311	WA4-0587-000		1	TRANSISTOR ARRAY, TD62304AP トランジスタ アレイ	
Q312	WA2-0307-000		1	TRANSISTOR ARRAY, TD62304P トランジスタ アレイ	
Q313	WA2-0307-000		1	TRANSISTOR ARRAY, TD62304P トランジスタ アレイ	
Q314	WA2-0991-000		1	TRANSISTOR, 2SD1521 トランジスタ	
Q315	WA2-0991-000		1	TRANSISTOR, 2SD1521 トランジスタ	
Q316	WA2-0991-000		1	TRANSISTOR, 2SD1521 トランジスタ	
Q317	WA2-0991-000		1	TRANSISTOR, 2SD1521 トランジスタ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
930 –Q318	WA2–1348–000		1	TRANSISTOR, 2SD2088 トランジスタ	
Q319	WA2–1348–000		1	TRANSISTOR, 2SD2088 トランジスタ	
Q320	WA2–1348–000		1	TRANSISTOR, 2SD2088 トランジスタ	
Q321	WA2–0772–000		1	TRANSISTOR, RN1202 トランジスタ	
Q322	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q323	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q324	WA2–0772–000		1	TRANSISTOR, RN1202 トランジスタ	
Q325	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q326	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q327	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q328	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q329	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q330	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q331	WA2–0772–000		1	TRANSISTOR, RN1202 トランジスタ	
Q332	WA2–1320–000		1	TRANSISTOR, 2SB1329 トランジスタ	
Q333	WA2–0808–000		1	TRANSISTOR, 2SD1658 トランジスタ	
Q334	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q335	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q336	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q337	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q338	WA2–0124–000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q339	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q340	WA2–0772–000		1	TRANSISTOR, RN1202 トランジスタ	
Q341	WA2–0772–000		1	TRANSISTOR, RN1202 トランジスタ	
Q342	WA2–0772–000		1	TRANSISTOR, RN1202 トランジスタ	
Q343	WA2–0772–000		1	TRANSISTOR, RN1202 トランジスタ	
Q344	WA2–0772–000		1	TRANSISTOR, RN1202 トランジスタ	
Q345	WA2–0772–000		1	TRANSISTOR, RN1202 トランジスタ	
Q346	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q347	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q348	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q349	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q350	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q351	WA2–0775–000		1	TRANSISTOR, RN2202 トランジスタ	
Q352	WA2–0845–000		1	TRANSISTOR, RN1206 トランジスタ	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
930 -Q353	WA2-0878-000		1	TRANSISTOR, 2SA1527 トランジスタ	
Q354	WA2-0878-000		1	TRANSISTOR, 2SA1527 トランジスタ	
Q355	WA2-0878-000		1	TRANSISTOR, 2SA1527 トランジスタ	
Q356	WA2-0878-000		1	TRANSISTOR, 2SA1527 トランジスタ	
Q357	WA2-0878-000		1	TRANSISTOR, 2SA1527 トランジスタ	
Q358	WA2-0878-000		1	TRANSISTOR, 2SA1527 トランジスタ	
Q359	WA2-0775-000		1	TRANSISTOR, RN2202 トランジスタ	
Q360	WA2-0775-000		1	TRANSISTOR, RN2202 トランジスタ	
Q361	WA2-0772-000		1	TRANSISTOR, RN1202 トランジスタ	
Q362	WA2-0772-000		1	TRANSISTOR, RN1202 トランジスタ	
R301	VR5-3680-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R306	VR5-3680-151		1	RESISTOR, 150 OHM 1/4W テイコウ	
R307	VR5-3680-472		1	RESISTOR, 4.7KOHM 1/4W テイコウ	
R308	VR5-3680-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R309	VR5-3680-274		1	RESISTOR, 270KOHM 1/4W テイコウ	
R310	VR5-3680-102		1	RESISTOR, 1KOHM, 1/4W テイコウ	
R311	VR5-3680-472		1	RESISTOR, 4.7KOHM 1/4W テイコウ	
R312	VR5-3680-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R313	VR5-3680-222		1	RESISTOR, 2.2KOHM 1/4W テイコウ	
R314	VR5-3680-222		1	RESISTOR, 2.2KOHM 1/4W テイコウ	
R315	VR5-3680-222		1	RESISTOR, 2.2KOHM 1/4W テイコウ	
R316	VR5-3680-222		1	RESISTOR, 2.2KOHM 1/4W テイコウ	
R317	VR5-3680-222		1	RESISTOR, 2.2KOHM 1/4W テイコウ	
R318	VR5-3680-222		1	RESISTOR, 2.2KOHM 1/4W テイコウ	
R319	VR5-3680-222		1	RESISTOR, 2.2KOHM 1/4W テイコウ	
R320	VR5-4150-101		1	RESISTOR, 100 OHM 2W テイコウ	
R321	VR5-6860-129		1	RESISTOR, 1.2 OHM 2W テイコウ	
R322	VR5-6860-129		1	RESISTOR, 1.2 OHM 2W テイコウ	
R323	VR5-3680-332		1	RESISTOR, 3.3KOHM, 1/4W テイコウ	
R324	VR5-3680-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R325	VR5-3680-201		1	RESISTOR, 200 OHM 1/4W テイコウ	
R326	VR5-3680-511		1	RESISTOR, 510 OHM 1/4W テイコウ	
R327	VR5-3680-511		1	RESISTOR, 510 OHM 1/4W テイコウ	
R328	VR5-3680-511		1	RESISTOR, 510 OHM 1/4W テイコウ	
R329	VR5-3680-511		1	RESISTOR, 510 OHM 1/4W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
930 —R330	VR5—3680—272		1	RESISTOR, 2.7KOHM 1/4W テイコウ	
R331	VR5—3680—472		1	RESISTOR, 4.7KOHM 1/4W テイコウ	
R332	VR5—3680—472		1	RESISTOR, 4.7KOHM 1/4W テイコウ	
R333	VR5—3680—103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R334	VR5—3680—472		1	RESISTOR, 4.7KOHM 1/4W テイコウ	
R335	VR5—3680—472		1	RESISTOR, 4.7KOHM 1/4W テイコウ	
R336	VR5—3680—332		1	RESISTOR, 3.3KOHM, 1/4W テイコウ	
R337	VR5—3680—220		1	RESISTOR, 22 OHM 1/4W テイコウ	
R338	VR5—3680—220		1	RESISTOR, 22 OHM 1/4W テイコウ	
R339	VR5—3680—220		1	RESISTOR, 22 OHM 1/4W テイコウ	
R340	VR5—3680—220		1	RESISTOR, 22 OHM 1/4W テイコウ	
R341	VR5—3680—562		1	RESISTOR, 5.6KOHM 1/4W テイコウ	
R342	VR5—3680—562		1	RESISTOR, 5.6KOHM 1/4W テイコウ	
R343	VR5—3680—562		1	RESISTOR, 5.6KOHM 1/4W テイコウ	
R344	VR5—3680—562		1	RESISTOR, 5.6KOHM 1/4W テイコウ	
R345	VR5—3680—562		1	RESISTOR, 5.6KOHM 1/4W テイコウ	
R346	VR5—3680—103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R347	VR5—3680—103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R348	VR5—3680—474		1	RESISTOR, 470KOHM テイコウ	
R349	VR5—2301—183		1	RESISTOR, 118 OHM 1/8W テイコウ	
R350	VR5—2301—003		1	RESISTOR, 100KOHM, 1/8W テイコウ	
R351	VR5—2302—212		1	RESISTOR, 22.1KOHM, 1/8W テイコウ	
R352	VR5—2306—492		1	RESISTOR, 64.9KOHM 1/8W テイコウ	
R353	VR5—3680—103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R354	VR5—3680—272		1	RESISTOR, 2.7KOHM 1/4W テイコウ	
R355	VR5—3680—103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R356	VR5—3680—562		1	RESISTOR, 5.6KOHM 1/4W テイコウ	
R357	VR5—3680—393		1	RESISTOR, 39KOHM 1/4W テイコウ	
R358	VR5—3680—101		1	RESISTOR, 100 OHM テイコウ	
R359	VR5—3680—102		1	RESISTOR, 1KOHM, 1/4W テイコウ	
R360	VR5—3680—331		1	RESISTOR, 330 OHM, 1/4W テイコウ	
R361	VR5—3680—393		1	RESISTOR, 39KOHM 1/4W テイコウ	
R362	VR5—3680—332		1	RESISTOR, 3.3KOHM, 1/4W テイコウ	
R363	VR5—3680—103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R364	VR5—3680—103		1	RESISTOR, 10KOHM, 1/4W テイコウ	

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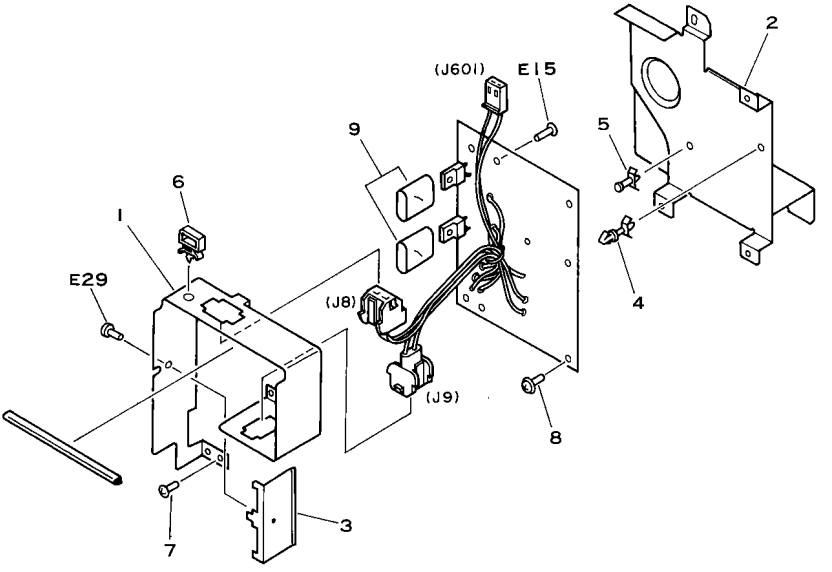
FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
930 -R365	VR5-3680-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R366	VR5-3680-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R367	VR5-3680-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R368	VR5-3680-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R369	VR5-3680-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R370	VR5-3680-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R371	VR5-3680-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R372	VR5-3680-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R373	VR5-3680-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R374	VR5-3680-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R375	VR5-3680-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R376	VR5-3680-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R377	VR5-3680-101		1	RESISTOR, 100 OHM テイコウ	
R378	VR5-3680-224		1	RESISTOR, 220KOHM 1/4W テイコウ	
R379	VR5-3680-391		1	RESISTOR, 390 OHM 1/4W テイコウ	
R380	VR5-3680-202		1	RESISTOR, 2KOHM 1/4W テイコウ	
R381	VR5-2301-002		1	RESISTOR, 10KOHM, 1/8W テイコウ	
R382	VR5-2303-571		1	RESISTOR, 3.57KOHM 1/8W テイコウ	
R383	VR5-3680-472		1	RESISTOR, 4.7KOHM 1/4W テイコウ	
R384	VR5-2301-272		1	RESISTOR, 12.7KOHM, 1/8W テイコウ	
R385	VR5-4150-471		1	RESISTOR, 470 OHM 2W テイコウ	
R386	VR5-4150-471		1	RESISTOR, 470 OHM 2W テイコウ	
R387	VR5-4150-471		1	RESISTOR, 470 OHM 2W テイコウ	
R388	VR5-4150-471		1	RESISTOR, 470 OHM 2W テイコウ	
R389	VR5-4150-471		1	RESISTOR, 470 OHM 2W テイコウ	
R390	VR5-4150-471		1	RESISTOR, 470 OHM 2W テイコウ	
R391	VR5-4150-471		1	RESISTOR, 470 OHM 2W テイコウ	
R392	VR5-4150-471		1	RESISTOR, 470 OHM 2W テイコウ	
R393	VR5-3680-000		1	RESISTOR, 0 OHM, 1/4W テイコウ	
R394	VR5-2301-001		1	RESISTOR, 1KOHM, 1/8W テイコウ	
R395	VR5-2301-402		1	RESISTOR, 14KOHM, 1/8W テイコウ	
RA301	VR5-1980-332		1	RESISTOR ARRAY, 3.3KOHM, 1/8W テイコウ アレイ	
RA302	VR5-1980-221		1	RESISTOR ARRAY, 220 OHM 1/8W テイコウ	
RA303	VR5-1980-751		1	RESISTOR ARRAY, 750 OHM 1/8W テイコウ	
RA304	VR5-4750-103		1	RESISTOR ARRAY, 10KOHM 1/4W テイコウ	

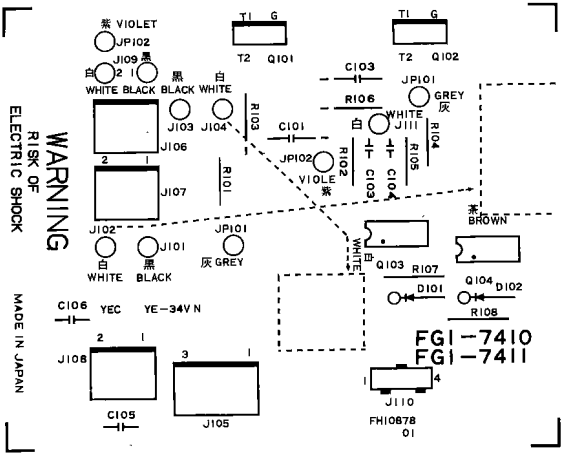
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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
930 —RA305	VR5—1930—103		1	RESISTOR ARRAY, 10KOHM, 1/8W テイコウ アレイ	
RA306	VR5—1930—103		1	RESISTOR ARRAY, 10KOHM, 1/8W テイコウ アレイ	
RA307	VR5—1930—102		1	RESISTOR ARRAY テイコウ アレイ	
RA308	VR5—1930—102		1	RESISTOR ARRAY テイコウ アレイ	
RA309	VR5—1930—102		1	RESISTOR ARRAY テイコウ アレイ	
RA310	VR5—4750—103		1	RESISTOR ARRAY, 10KOHM 1/4W テイコウ	
RA311	VR5—4750—103		1	RESISTOR ARRAY, 10KOHM 1/4W テイコウ	
RA312	VR5—4750—103		1	RESISTOR ARRAY, 10KOHM 1/4W テイコウ	
RA313	VR5—4750—103		1	RESISTOR ARRAY, 10KOHM 1/4W テイコウ	
SW301	WC2—0141—000		1	SWITCH, PUSH プッシュ スイッチ	
VR301	VR5—6850—103		1	RESISTOR, VARIABLE, 10KOHM カヘン テイコウ	
VR302	VR5—6850—103		1	RESISTOR, VARIABLE, 10KOHM カヘン テイコウ	
VR303	VR5—6850—502		1	RESISTOR, VARIABLE, 5KOHM カヘン テイコウ	
VR304	VR5—6850—103		1	RESISTOR, VARIABLE, 10KOHM カヘン テイコウ	
VR305	VR5—6850—103		1	RESISTOR, VARIABLE, 10KOHM カヘン テイコウ	
VR306	VR5—6850—103		1	RESISTOR, VARIABLE, 10KOHM カヘン テイコウ	
X301	WK2—0290—000		1	OSCILLATOR, QUARTZ スイショウ シンドウシ	
ZD301	WA1—0949—000		1	DIODE, ZENER, HZS24—2 ツエナー ダイオード	
ZD302	WA1—1027—000		1	DIODE, ZENER, HZS2B2 ツエナー ダイオード	
ZD303	WA1—1001—000		1	DIODE, ZENER, HZS18—2 ツエナー ダイオード	
ZD304	WA1—0999—000		1	DIODE, ZENER, HZS18—2 ツエナー ダイオード	

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FIGURE 935 AC DRIVER PCB ASSEMBLY
AC ドライバ回路基板





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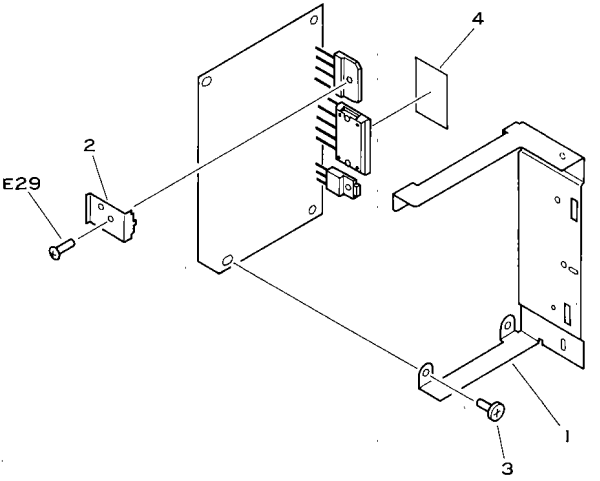
FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
935 —	FG1-7410-040		1	AC DRIVER PCB ASSEMBLY AC ドライバ カイロ キバン	100V/115V
	FG1-7411-040		1	AC DRIVER PCB ASSEMBLY AC ドライバ カイロ キバン	220V/240V
1	FA5-2011-000		1	PLATE ホウネツ バン	
2	FA5-2014-020		1	MOUNT シバン	
3	FA5-2015-000		1	PLATE, SUPPORT オサエ イタ	
4	VT2-0001-004		1	SUPPORT, PCB ロツキング サポート	
5	VT2-0002-004		1	SUPPORT, SPACER サポート スペーサ	
6	FA2-9388-000		3	SCREW, MACH., TRUSS HEAD, M3X5 バインド ネジ	
7	WT2-0179-000		1	CLIP, CABLE ロツキング ワイヤ サドル	
8	XA9-0233-000		1	SCREW, M3X6 セムス ネジ	
9	WA9-0277-000		2	SHEET, INSULATING ゼツエン シート	
C101	VC6-1680-104		1	CAPACITOR, 0.1U 125V コンデンサ	100/115V
	VC6-1690-104		1	CAPACITOR, 0.1U 250V コンデンサ	220/240V
C102	VC3-2501-103		1	CAPACITOR, FILM, 0.01UF, 50V コンデンサ	
C103	VC6-1680-104		1	CAPACITOR, 0.1U 125V コンデンサ	100/115V
	VC6-1690-104		1	CAPACITOR, 0.1U 250V コンデンサ	220/240V
C104	VC3-2501-103		1	CAPACITOR, FILM, 0.01UF, 50V コンデンサ	
C105	VC5-6170-102		1	CERAMIC CAPACITOR, 1000PF, コンデンサ	100/115V
C106	VC5-6170-102		1	CERAMIC CAPACITOR, 1000PF, コンデンサ	100/115V
D101	X65-5032-000		1	DIODE, 1S1588 ダイオード	
D102	X65-5032-000		1	DIODE, 1S1588 ダイオード	
J101	FF2-0661-000		1	CABLE ニユウリヨク ケーブル	
J102	FF2-0661-000		1	CABLE ニユウリヨク ケーブル	
J103	FF2-0662-000		1	CABLE, HEATOR ヒータ ケーブル	
J104	FF2-0662-000		1	CABLE, HEATOR ヒータ ケーブル	
J105	VS1-0026-003		1	PIN ASSEMBLY, 3P (W) ピン アセンブリ	
J106	VS1-0026-002		1	PIN ASSEMBLY, 2P (W) ピン アセンブリ	
J107	VS1-0026-002		1	PIN ASSEMBLY, 2P (W) ピン アセンブリ	
J108	VS1-0026-002		1	PIN ASSEMBLY, 2P (W) ピン アセンブリ	
J109-1	FF2-0663-000		1	CABLE, CVR CVR ケーブル	
J109-2	FF2-0663-000		1	CABLE, CVR CVR ケーブル	
J110	VS1-0437-004		1	CONNECTOR, 4P コネクタ	
JP101	FF2-0664-000		1	CABLE 1 ワイヤ (1)	
JP102	FF2-0665-000		1	CABLE 2 ワイヤ (2)	
Q101	WA5-0095-000		1	TRIAC, BCR16CM-8R-A8 トライアック	100/115V

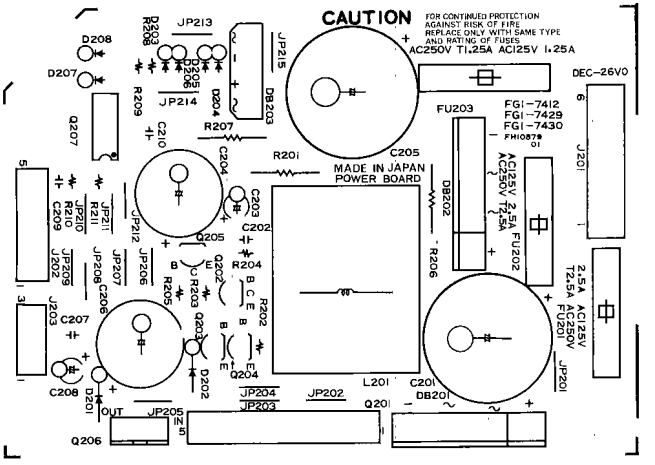
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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
935 –Q101	WA5–0096–000		1	TRIAC, BCR16CM–12R–A8 トライアック	220/240V
Q102	WA5–0093–000		1	TRIAC, BCR5AM–8L–A8 トライアック	100/115V
	WA5–0094–000		1	TRIAC, BCR5AM–12L–A8 トライアック	220/240V
Q103	WG8–0147–000		1	PHOTO–TRIAC, S21MD4 フオト トライアック	
Q104	WG8–0147–000		1	PHOTO–TRIAC, S21MD4 フオト トライアック	
R101	VR5–1260–151		1	RESISTOR, 150 OHM 1/4W テイコウ	
R102	VR1–1141–181		1	RESISTOR, 180 OHM, 1/4W テイコウ	
R103	VR5–6770–121		1	RESISTOR, 120 OHM 1/2W テイコウ	
R104	VR5–1260–151		1	RESISTOR, 150 OHM 1/4W テイコウ	
R105	VR1–1141–181		1	RESISTOR, 180 OHM, 1/4W テイコウ	
R106	VR5–6770–121		1	RESISTOR, 120 OHM 1/2W テイコウ	
R107	VR5–3970–102		1	RESISTOR, 1KOHM 1W テイコウ	
R108	VR5–3970–102		1	RESISTOR, 1KOHM 1W テイコウ	

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FIGURE 960 DC POWER SUPPLY PCB ASSEMBLY
DC電源回路基板





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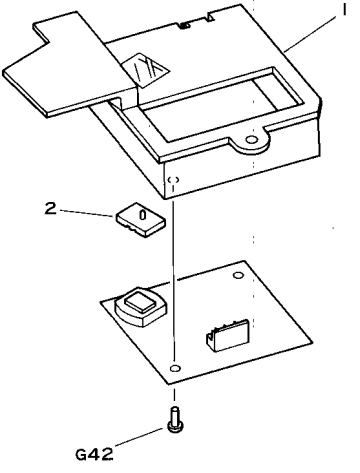
FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
960 —	FG1-7412-000		1	DC POWER SUPPLY PCB ASS'Y DC デンゲン カイロ キバン 100V	100V
	FG1-7429-000		1	DC POWER SUPPLY PCB ASS'Y DC デンゲン カイロ キバン 115V	115V
	FG1-7430-000		1	DC POWER SUPPLY PCB ASS'Y DC デンゲン カイロ キバン 200V	220/240V
1	FA5-2021-000		1	HEATSINK ホウネツバン	
2	FA5-2022-000		3	SPRING, LEAF イタ バネ	
3	FA2-9388-000		4	SCREW, MACH., TRUSS HEAD, M3X5 バインド ネジ	
4	WA9-0142-000		1	SHEET, INSULATION ゼツエン シート	
C201	FH7-9203-000		1	CAPACITOR, 2200U 80V コンデンサ	
C202	VC4-4504-103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
C203	VC1-2501-225		1	CAPACITOR, 2.2UF, 50V コンデンサ	
C204	VC1-2351-108		1	CAPACITOR, 1000U 35V コンデンサ	
C205	VC5-5940-688		1	CAPACITOR, 6800U 50V コンデンサ	
C206	VC5-4680-228		1	CAPACITOR, 2200U 50V コンデンサ	
C207	VC9-5047-000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C208	VC1-2101-107		1	CAPACITOR, 100UF, 10V コンデンサ	
C209	VC9-5047-000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C210	VC9-1095-000		1	CAPACITOR, 0.01UF, 50V コンデンサ	
D201	WA1-0474-000		1	DIODE, S5566B ダイオード	
D202	WA1-0768-000		1	DIODE, HRP22 ダイオード	
D203	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D204	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D207	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
D208	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
DB201	WA1-1000-000		1	DIODE STACK, RBV-402 ダイオード スタック	
DB202	WA1-1000-000		1	DIODE STACK, RBV-402 ダイオード スタック	
DB203	WA1-1028-000		1	DIODE STACK, RB-151 ダイオード スタック	
FU201	WD1-0119-000		1	FUSE, 125V 2.5A ヒューズ	100V
	WD1-0255-000		1	FUSE, 125V 2 5A ヒューズ	115V
	WD1-0257-000		1	FUSE, 125V 2.5A ヒューズ	220/240V
	WD9-0031-000		2	FUSE HOLDER ヒューズ ホルダ	
FU202	WD1-0119-000		1	FUSE, 125V 2.5A ヒューズ	100V
	WD1-0255-000		1	FUSE, 125V 2.5A ヒューズ	115V
	WD1-0257-000		1	FUSE, 125V 2.5A ヒューズ	220/240V
	WD9-0031-000		2	FUSE HOLDER ヒューズ ホルダ	
FU203	WD1-0253-000		1	FUSE, 125V 1.25A ヒューズ	100V

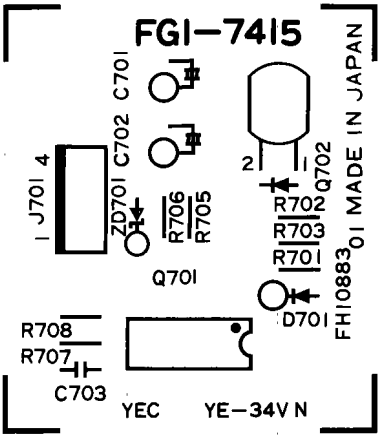
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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
960 -FU203	WD1-0256-000		1	FUSE, 125V 1.25A ヒューズ	115V
	WD1-0258-000		1	FUSE, 125V 1.25A ヒューズ	220/240V
	WD9-0031-000		2	FUSE HOLDER ヒューズ ホルダ	
J201	VS1-0025-006		1	PIN ASSEMBLY, 6P (W) ピン アセンブリ	
J202	FF2-0660-000		1	CABLE, DC POWER DC デンゲン ケーブル	
J203	FF2-0660-000		1	CABLE, DC POWER DC デンゲン ケーブル	
L201	FH7-9183-000		1	COIL, CHOKE チョーク コイル	
Q201	WA4-0881-000		1	REGULATOR, STR2124 レギュレータ	
Q202	WA2-0135-000		1	TRANSISTOR, 2SA1015Y トランジスタ	
Q203	WA2-0124-000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q204	WA2-0124-000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q205	WA2-0135-000		1	TRANSISTOR, 2SA1015Y トランジスタ	
Q206	WA4-0887-000		1	REGULATOR, UPC7805HF レギュレータ	
Q207	WA4-0233-000		1	IC, NJM2903D IC	
R201	VR9-3552-000		1	RESISTOR, 0.27 OHM 2W テイコウ	
R202	VR5-3680-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R203	VR5-3680-512		1	RESISTOR, 5.1KOHM 1/4W テイコウ	
R204	VR5-3680-101		1	RESISTOR, 100 OHM テイコウ	
R205	VR5-3680-102		1	RESISTOR, 1KOHM, 1/4W テイコウ	
R206	VR5-6020-228		1	RESISTOR, 0.22 OHM 2W テイコウ	
R207	VR5-4150-102		1	RESISTOR, 1KOHM 2W テイコウ	
R208	VR5-3680-102		1	RESISTOR, 1KOHM, 1/4W テイコウ	
R209	VR5-3680-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R210	VR5-3680-202		1	RESISTOR, 2KOHM 1/4W テイコウ	
R211	VR5-3680-203		1	RESISTOR, 20KOHM 1/4W テイコウ	

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FIGURE 970 AE SENSOR PCB ASSEMBLY
AE センサ部



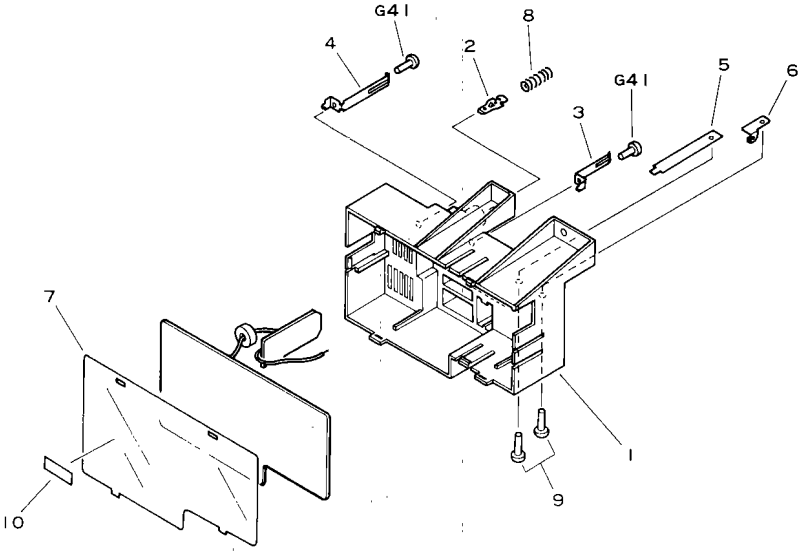


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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
970 -	FG1-7415-020		1	AE SENSOR ASSEMBLY AE センサ ブ	
1	FF1-9445-020		1	HOUSING, AE SENSOR AE ホルダ	
2	FN1-0235-000		1	LENS CAP レンズ キャップ	
C701	VC1-2351-106		1	ELECT.CAPACITOR, 10UF, 35V コンデンサ	
C702	VC1-2351-106		1	ELECT.CAPACITOR, 10UF, 35V コンデンサ	
C703	VC9-1513-000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
D701	WA1-0887-000		1	DIODE, 1SS270A ダイオード	
J701	WS3-0586-000		1	PIN ASSEMBLY, 4P ピン アセンブリ	
Q701	WA4-0367-000		1	IC, MPC358C/NJM2904D/LM358C IC	
Q702	WG3-0055-000		1	PHOTODIODE, BS520 フォト ダイオード	
R701	VR5-6371-004		1	RESISTOR, 1MOHM 1/8W テイコウ	
R702	VR5-6375-491		1	RESISTOR, 5.49KOHM, 1/4W テイコウ	
R703	VR5-6372-702		1	RESISTOR, 27KOHM 1/8W テイコウ	
R705	VR5-3680-102		1	RESISTOR, 1KOHM, 1/4W テイコウ	
R706	VR5-3680-331		1	RESISTOR, 330 OHM, 1/4W テイコウ	
R707	VR5-3680-332		1	RESISTOR, 3.3KOHM, 1/4W テイコウ	
R708	VR5-3680-472		1	RESISTOR, 4.7KOHM 1/4W テイコウ	
ZD701	WA1-1030-000		1	DIODE, ZENER, HZS5CLL ツエナー ダイオード	

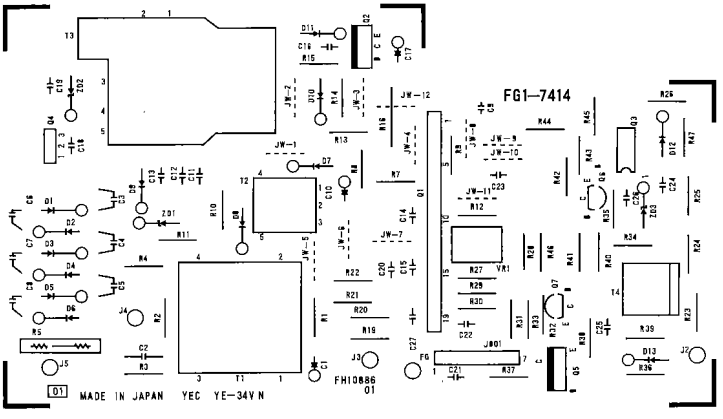
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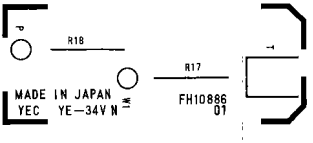
FIGURE 980 HVT ASSEMBLY
HVTユニット



NOTE : This assembly does not include the parts shown with Key No. 10.

注：このユニットにKey No.10の部品は含まれません。





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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
980 –	FG1–7414–100		1	HV TRANSFORMER PCB ASSEMBLY コウアツ トランス	
1	FA5–2031–030		1	COVER, HV TRANSFORMER HVT カバー	
2	FA5–2032–000		1	PLATE, BEARING, PRIMARY イチジ デンキヨク バン	
3	FA5–2033–000		1	PLATE, BEARING, GRID グリッド デンキヨク バン	
4	FA5–2034–000		1	PLATE, BEARING, SHIELD シールド デンキヨク バン	
5	FA5–2035–000		1	PLATE, STATIC CHARGE ELIM R ジョデン シシン デンキヨク バン	
6	FA5–2036–000		1	PLATE, BEARING, TRANSFER テンシャ デンキヨク バン	
7	FA5–2037–000		1	SHEET INSULATING ゼツエン シート	
8	FS2–2769–000		1	SPRING, COMPRESSION アツシュク バネ	
9	XB1–1301–203		2	SCREW, MACH., PAN HEAD M3X12 ナベ コネジ	
10	FA1–9972–000		1	LABEL "WARNING, HIGH VOLTAGE" コウアツ チュウイ メイバン	SEE NOTE
	FS2–8612–000		1	LABEL "WARNING, HIGH VOLTAGE" コウアツ チュウイ メイバン	JPN
	FS2–8613–000		1	LABEL "WARNING, HIGH VOLTAGE" コウアツ チュウイ メイバン	ENG
FG	FF2–0001–000		1	CABLE, GND GND ケーブル	
J2	FF2–0006–000		1	CABLE, GRID グリッド ケーブル	
J3	FF2–0007–000		1	CABLE, SHIELD シールド ケーブル	
J4	FF2–0003–000		1	CABLE, DEVELOPING UNIT BIAS ゲンゾウ バイアス ケーブル	
J5	FF2–0002–000		1	CABLE, STATIC CHAGE ELIMINATOR ジョデン シシン ケーブル	
P	FF2–0005–000		1	CABLE, PRIMARY ノジ H.V ケーブル	
W1	FF2–0004–000		1	CABLE, HV H.V ケーブル	
C 1	VC6–3760–336		1	CAPACITOR, 33UF, 50V コンデンサ	
C 2	VC5–8120–471		1	CAPACITOR, 470PF 1KV コンデンサ	
C 3	VC9–1470–000		1	CAPACITOR, 0.01UF, 1KV コンデンサ	
C 4	VC9–1470–000		1	CAPACITOR, 0.01UF, 1KV コンデンサ	
C 5	VC9–1470–000		1	CAPACITOR, 0.01UF, 1KV コンデンサ	
C 6	VC9–1470–000		1	CAPACITOR, 0.01UF, 1KV コンデンサ	
C 7	VC9–1470–000		1	CAPACITOR, 0.01UF, 1KV コンデンサ	
C 8	VC9–1470–000		1	CAPACITOR, 0.01UF, 1KV コンデンサ	
C 9	WA8–0166–000		1	VARISTOR, 3300PF バリスタ	
C10	VC6–3760–476		1	CAPACITOR, 47UF, 50V コンデンサ	
C11	VC6–0770–472		1	CAPACITOR, 4700PF 1KV コンデンサ	
C12	VC6–0770–472		1	CAPACITOR, 4700PF 1KV コンデンサ	
C13	VC4–4504–102		1	CAPACITOR, 0.001UF, 50V コンデンサ	
C14	VC5–7010–104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C15	VC5–7010–104		1	CAPACITOR, 0.1UF, 25V コンデンサ	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
980 -C16	VC6-1000-333		1	CAPACITOR, 0.033UF 200V コンデンサ	
C17	VC5-5760-476		1	CAPACITOR, 47UF 35V コンデンサ	
C18	VC5-4530-473		1	CAPACITOR, 0.047UF, 50V コンデンサ	
C19	VC5-7010-104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C20	VC5-7010-104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C21	VC5-7010-104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C22	VC4-4504-102		1	CAPACITOR, 0.001UF, 50V コンデンサ	
C23	VC4-4504-102		1	CAPACITOR, 0.001UF, 50V コンデンサ	
C24	VC5-7010-104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C25	VC5-7010-104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C26	VC5-4530-103		1	CAPACITOR, 0.01UF 50V コンデンサ	
C27	VC5-7010-104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
D 1	WA1-0396-000		1	DIODE, SHV-03 ダイオード	
D 2	WA1-0396-000		1	DIODE, SHV-03 ダイオード	
D 3	WA1-0396-000		1	DIODE, SHV-03 ダイオード	
D 4	WA1-0396-000		1	DIODE, SHV-03 ダイオード	
D 5	WA1-0396-000		1	DIODE, SHV-03 ダイオード	
D 6	WA1-0396-000		1	DIODE, SHV-03 ダイオード	
D 7	WA1-0178-000		1	DIODE, 1SS81 ダイオード	
D 8	WA1-0396-000		1	DIODE, SHV-03 ダイオード	
D 9	X65-5032-000		1	DIODE, 1S1588 ダイオード	
D10	WA1-0178-000		1	DIODE, 1SS81 ダイオード	
D11	WA1-0306-000		1	DIODE, EM01Z ダイオード	
D12	X65-5032-000		1	DIODE, 1S1588 ダイオード	
D13	X65-5032-000		1	DIODE, 1S1588 ダイオード	
J801	FF1-9451-020		1	CABLE ニユウリヨク ケーブル	
Q 1	FH4-5440-000		1	GATE ARRAY, HG62E15R35FB ゲート アレイ	
Q 2	WA2-0831-000		1	TRANSISTOR, 2SC3834 トランジスタ	
Q 3	WA4-0225-000		1	IC, NJM4558 IC	
Q 4	FH4-5087-000		1	IC IC	
Q 5	WA2-0957-000		1	TRANSISTOR, 2SC3675 トランジスタ	
Q 6	WA2-0124-000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q 7	WA2-0135-000		1	TRANSISTOR, 2SA1015Y トランジスタ	
R 1	VR1-1141-479		1	RESISTOR, 4.7 OHM, 1/4W テイコウ	
R 2	VR1-1141-104		1	RESISTOR, 100KOHM, 1/4W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER/REMARKS
980 -R 3	VR1-1141-515		1	RESISTOR, 5.1MOHM, 1/4W テイコウ	
R 4	VR1-1141-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R 5	FH4-9053-000		1	RESISTOR ARRAY, 100M/150KOHM テイコウ アレイ	
R 7	VR1-1141-470		1	RESISTOR, 47 OHM, 1/4W テイコウ	
R 8	VR5-6870-470		1	RESISTOR, 47 OHM, 1/4W テイコウ	
R 9	VR1-1141-471		1	RESISTOR, 470 OHM, 1/4W テイコウ	
R10	VR5-2511-004		1	RESISTOR, 1MOHM 1/4W テイコウ	
R11	VR5-2511-004		1	RESISTOR, 1MOHM 1/4W テイコウ	
R12	VR1-1141-914		1	RESISTOR, 910KOHM 1/4W テイコウ	
R13	VR1-1141-392		1	RESISTOR, 3.9KOHM, 1/4W テイコウ	
R14	VR1-1141-471		1	RESISTOR, 470 OHM, 1/4W テイコウ	
R15	VR1-1141-220		1	RESISTOR, 22 OHM, 1/4W テイコウ	
R16	VR7-1710-229		1	RESISTOR, 2.2 OHM 1W テイコウ	
R17	VR5-2650-334		1	RESISTOR, 330KOHM 1/2W テイコウ	
R18	VR5-2650-103		1	RESISTOR, 10KOHM 1/2W テイコウ	
R19	VR1-1141-514		1	RESISTOR, 510KOHM 1/4W テイコウ	
R20	VR1-1141-514		1	RESISTOR, 510KOHM 1/4W テイコウ	
R21	VR1-1141-514		1	RESISTOR, 510KOHM 1/4W テイコウ	
R22	VR1-1141-514		1	RESISTOR, 510KOHM 1/4W テイコウ	
R23	VR5-2513-324		1	RESISTOR, 3.32MOHM 1/4W テイコウ	
R24	VR5-2513-324		1	RESISTOR, 3.32MOHM 1/4W テイコウ	
R25	VR5-2513-324		1	RESISTOR, 3.32MOHM 1/4W テイコウ	
R26	VR5-2512-153		1	RESISTOR, 215KOHM 1/4W テイコウ	
R27	VR5-2517-322		1	RESISTOR, 73.2KOHM 1/4W テイコウ	
R28	VR1-1141-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R29	VR5-2512-052		1	RESISTOR, 20.5KOHM 1/4W テイコウ	
R30	VR5-2512-612		1	RESISTOR, 26.1KOHM 1/4W テイコウ	
R31	VR5-2513-013		1	RESISTOR, 301KOHM 1/4W テイコウ	
R32	VR1-1141-472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R33	VR1-1141-203		1	RESISTOR, 20KOHM, 1/4W テイコウ	
R34	VR1-1141-203		1	RESISTOR, 20KOHM, 1/4W テイコウ	
R35	VR1-1141-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R36	VR1-1141-104		1	RESISTOR, 100KOHM, 1/4W テイコウ	
R37	VR1-1141-104		1	RESISTOR, 100KOHM, 1/4W テイコウ	
R38	VR1-1141-104		1	RESISTOR, 100KOHM, 1/4W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER/REMARKS
980 -R39	VR1-1141-203		1	RESISTOR, 20KOHM, 1/4W テイコウ	
R40	VR1-1141-470		1	RESISTOR, 47 OHM, 1/4W テイコウ	
R41	VR1-1141-472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R42	VR1-1141-202		1	RESISTER, 2KOHM, 1/4W テイコウ	
R43	VR1-1141-752		1	RESISTOR, 7.5KOHM, 1/4W テイコウ	
R44	VR1-1141-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R45	VR1-1141-103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R46	VR1-1141-202		1	RESISTER, 2KOHM, 1/4W テイコウ	
R47	VR5-2519-763		1	RESISTOR, 976KOHM 1/4W テイコウ	
T 1	FH3-0629-000		1	TRANSFORMER トランス	
T 2	FH3-0239-000		1	TRANSFORMER トランス	
T 3	FH3-0512-000		1	TRANSFORMER トランス	
T 4	FH3-8017-000		1	TRANSFORMER トランス	
VR1	VR5-6840-204		1	RESISTOR, VARIABLE, 200KOHM カペン テイコウ	
ZD1	WA1-0074-000		1	DIODE, ZENER, HZ24-2 ツエナー ダ イオード	
ZD2	WA1-0074-000		1	DIODE, ZENER, HZ24-2 ツエナー ダ イオード	
ZD3	WA1-0209-000		1	DIODE, ZENER, HZ5C-1 ツエナー ダ イオード	

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B LIST OF CONNECTORS
コネクター覧

Connector No. コネクタNo.	Male オス		Female メス	
	Connector コネクタ	Contact 端子	Connector コネクタ	Contact 端子
J1	WS4-0061-000	WS4-0075-000	WS4-0062-000	WS4-0073-000
J2	VS4-0001-002	WS4-0219-000	VS4-0002-002	WS4-0217-000
J3	R1	–	VS4-0002-002	WS4-0217-000
J4	H1	–	WS4-0060-000	WS4-0073-000
J5	DCP2	–	VS3-0044-002	WS3-0916-000
J6	DCP1	–	VS3-0044-002	WS3-0916-000
J7	VS4-0001-002	WS4-0220-000	VS4-0002-002	WS4-0217-000
J8	WS4-0059-000	WS4-0075-000	WS4-0098-000	WS4-0073-000
J9	WS4-0061-000	WS4-0075-000	WS4-0060-000	WS4-0073-000
J10	VS1-0001-002	WS4-0220-000	VS4-0002-202	WS4-0217-000
J12	CL1	–	VS1-0192-002	–
J14	FH2-5568-000	WS3-1240-000	FH2-5560-000	WS3-1241-000
J15	Q6	–	WS3-0429-000	WS3-0437-000
J17	Q1	–	VS1-0040-003	–
J18	VS3-0108-005	WS3-0885-000	VS1-0192-005	–
J19	Q2	–	VS1-0440-003	–
J20	VS3-0108-004	WS3-0885-000		–
J22	FM3	–	VS1-0066-002	–
J23	Q3	–	VS1-0440-003	–
J24	Q4	–	VS1-0440-003	–
J25	VS3-0108-002	WS3-0885-000	TH1	–
J26	VS3-0108-003	WS3-0885-000	VS1-0192-003	–
J27	Q5	–	VS1-0440-003	–
J101	FH9-0162-000	–	PCB1	–
J102	FH9-0162-000	–	PCB1	–
J103	FH9-0162-000	–	PCB1	–
J104	FH9-0162-000	–	PCB1	–
J105	PCB1	–	M1	–
J106	PCB1	–	VS3-0044-002	WS3-0916-000
J107	PCB1	–	VS3-0044-002	WS3-0916-000
J108	PCB1	–	T1	–
J109	WT1-0246-000	–	PCB1	–
J110	PCB1	–	VS1-0440-004	–
J111	FH9-0162-000	–	PCB1	–
J201	PCB2	–	T1	–
J202	PCB2	–	VS3-0240-005	WS3-1232-000
J203	PCB2	–	VS3-0240-003	WS3-1232-000
J301	PCB3	–	VS3-0044-008	WS3-0916-000
J302	PCB3	–	M2	–
J303	PCB3	–	SL2	–
J304	PCB3	–	VS1-0440-009	–
J305	PCB3	–	FM1	–

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FA2-7945-000	300 - 11
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FA5-2151-000	100 - 17
FA5-2152-000	100 - 18
FA5-2154-000	160 - 1
FA5-2155-000	160 - 2
FA5-2156-000	100 - 15
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FA5-2158-000	326 - 18
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FA5-2160-000	350 - 30
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FA5-2163-000	102 - 13
FA5-2221-020	300 - 1
FA5-2224-000	300 - 2
FA5-2227-000	300 - 13A
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FA5-2231-030	300 - 4
FA5-2233-030	300 - 5
FA5-2234-030	300 - 6
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FA6-3921-000	810 - 2
FA6-4681-000	810 - 30
FA6-4682-000	810 - 34
FA6-4683-000	810 - 37
FA6-4684-000	810 - 38
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FA6-5266-000	550 - 2
FA6-5622-020	190 - 6
FA6-5658-000	102 - 41
FA6-5660-000	104 - 6
FA7-0048-020	100 - 20
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	111 - 3
FA9-0026-000	112 - 3
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FA9-1781-000	300 - 10
FA9-1782-000	326 - 22
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FA9-1934-000	810 - 65
FB1-0301-000	810 - 68
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FF1-9380-030	210 - 35
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FF1-9410-000	640 - 29
FF1-9411-000	640 - 30
FF1-9412-000	102 - 22
FF1-9413-000	104 - 26
FF1-9414-020	250 - 12
FF1-9415-000	250 - 13
FF1-9421-020	326 - 3
FF1-9422-020	326 - 4
FF1-9423-000	326 - 5
FF1-9424-000	102 - 32
FF1-9425-000	102 - 33
FF1-9426-000	105 - 1
FF1-9428-000	300 - 12
FF1-9429-000	300 - 13
FF1-9430-000	300 - 14
FF1-9431-000	102 - 25
FF1-9432-000	102 - 15
FF1-9433-020	100 - 12
FF1-9434-000	100 - 12
FF1-9435-000	210 - 38
FF1-9436-000	210 - 39
FF1-9438-050	560 - 2
FF1-9440-030	560 - 4
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FH7-5143-000	103 - 10
FH7-6080-000	101 - 8
FH7-7083-000	811 - 78
FH7-7087-000	102 - 26
	102 - 36
	210 - 33
	326 - 10
	810 - 79
FH7-7127-000	810 - 77
FH7-9040-000	110 - 6
FH7-9132-000	112 - 6
FH7-9183-000	960 -L201
FH7-9203-000	960 -C201
FN1-0235-000	970 - 2
FN1-4212-000	400 - 23
FN1-4213-000	401 - 7
FN1-4214-000	210 - 27
FN1-4215-000	210 - 28
FN1-4216-000	210 - 45
FS1-0884-000	810 - 60
FS1-1189-000	250 - 4
FS1-1202-000	103 - 6
	350 - 22
FS1-1205-000	810 - 64
FS1-1240-000	810 - 61
FS1-1402-000	103 - 7
FS1-1411-000	103 - 8
FS1-1462-000	103 - 9
FS1-1593-000	400 - 20
	401 - 9
FS1-1594-000	640 - 20
FS1-1595-000	103 - 5
FS1-1596-000	810 - 58
FS1-1597-000	810 - 59
FS1-1598-000	640 - 43
FS1-9003-000	100 - 24
FS1-9005-000	810 - 63
FS1-9006-000	210 - 31
FS1-9054-000	104 - 15
FS1-9073-000	220 - 5
FS1-9102-000	450 - 10
FS1-9120-000	810 - 62
FS1-9169-000	100 - 24
	102 - 39
FS1-9255-000	103 - 23
FS1-9261-000	101 - 13
FS1-9265-000	450 - 11
FS1-9266-000	100 - 19
FS2-0122-000	103 - 20A
FS2-0866-000	210 - 26
FS2-0867-000	220 - 6
FS2-0868-000	220 - 7
FS2-0869-000	220 - 8
FS2-0870-000	640 - 15
FS2-0871-000	640 - 16
FS2-0872-020	640 - 17
FS2-0873-000	640 - 18
FS2-0874-000	640 - 19
FS2-0875-000	103 - 32
FS2-0876-000	104 - 24
FS2-0877-000	104 - 25
FS2-0878-000	250 - 7
FS2-0879-000	250 - 8
FS2-0880-000	250 - 9
FS2-0881-020	250 - 10
FS2-0882-000	650 - 1
FS2-0883-000	650 - 2
FS2-0884-000	650 - 3
FS2-0885-000	650 - 4
FS2-0886-000	650 - 5
FS2-0887-000	350 - 19
FS2-0888-000	810 - 44
FS2-0890-020	810 - 46
FS2-0891-020	810 - 45
FS2-0892-000	810 - 47
FS2-0893-000	810 - 49
FS2-0894-000	810 - 48
FS2-0895-000	810 - 50
FS2-2161-000	810 - 57
FS2-2763-000	550 - 11
FS2-2764-000	450 - 12
FS2-2765-000	450 - 13
FS2-2766-000	220 - 9
FS2-2767-000	220 - 10
FS2-2768-000	102 - 11
FS2-2769-000	980 - 8
FS2-2770-000	250 - 6
FS2-2771-000	104 - 16
FS2-2772-000	101 - 14
FS2-2773-000	350 - 21
FS2-2774-000	810 - 51
FS2-2775-000	810 - 52
FS2-2776-000	810 - 53
FS2-2777-000	810 - 54
FS2-2778-000	810 - 55
FS2-2781-000	560 - 11
FS2-2782-000	350 - 20
FS2-2783-000	103 - 11
FS2-2784-000	103 - 22
FS2-2785-000	300 - 9
FS2-2786-000	300 - 9
FS2-2787-000	300 - 9
FS2-2788-000	400 - 21
FS2-2789-000	550 - 5
FS2-3430-000	104 - 30
	250 - 5
FS2-8120-000	300 - 12A
FS2-8612-000	101 - 23
	104 - 35
FS2-8612-000	350 - 28
	980 - 10
FS2-8613-000	101 - 23
	104 - 35
	350 - 28
	980 - 10
FS3-2780-000	810 - 56
FS4-8094-030	100 - 12B
FS4-8095-030	100 - 10
FS4-8096-000	100 - 12B
FS4-8097-000	100 - 10
FS4-8098-000	100 - 12B
FS4-8099-000	100 - 10
FS4-8100-000	100 - 12B
FS4-8101-000	100 - 10
FS4-8106-000	640 - 30A
FS4-8107-000	400 - 35
FS4-8108-000	300 - 18
FS4-8109-000	325 - 7A
FS4-8110-000	100 - 14E
FS4-8113-000	101 - 7A
FS4-8114-000	100 - 14F
FS4-8115-000	101 - 7B
FS4-8116-000	300 - 17
FS4-8117-000	300 - 17
FS4-8118-000	300 - 17
FS4-8119-000	160 - 6
FS4-8122-000	100 - 23
FS4-8123-000	100 - 23
FS4-8348-000	100 - 23
FS4-8349-000	100 - 23
FS4-8353-000	100 - 25
FS4-8356-000	300 - 12A
FS5-9005-000	400 - 22
FY1-0595-000	100 - 23
FY3-0030-000	550 - 9
	560 - 16
FY3-0040-000	550 - 9
	560 - 16
VC1-2101-107	930 -C303
	930 -C326
	960 -C208
VC1-2161-106	930 -C325
VC1-2251-475	930 -C328
VC1-2351-106	970 -C701
	970 -C702
VC1-2351-107	930 -C301
VC1-2351-108	960 -C204
VC1-2351-476	930 -C310
VC1-2501-105	930 -C327
VC1-2501-107	930 -C305
VC1-2501-225	960 -C203
VC3-2501-103	935 -C102
	935 -C104
VC4-1501-100	930 -C318
	930 -C319
VC4-3503-101	930 -C336
VC4-3503-102	930 -C330
	930 -C331
	930 -C332
	930 -C333
	930 -C334
	930 -C335
	930 -C343
	930 -C344
	930 -C345
	930 -C346
	930 -C347
VC4-3503-221	930 -C311
VC4-4504-102	980 -C13
	980 -C22
	980 -C23
VC4-4504-103	930 -C309
	930 -C312
	930 -C314
	930 -C315
	930 -C316
	930 -C317
	930 -C320
	930 -C324
	930 -C329
	930 -C337
	930 -C338
	930 -C339
	930 -C340
	930 -C348
	960 -C202
VC5-1840-102	930 -CA301
	930 -CA303
VC5-4530-103	980 -C26
VC5-4530-473	980 -C18
VC5-4680-228	960 -C206
VC5-5760-476	980 -C17

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PART NUMBER	FIGURE & KEY NO.
VC5-5940-688	960 -C205
VC5-6170-102	935 -C105
	935 -C106
VC5-7010-104	980 -C14
	980 -C15
	980 -C19
	980 -C20
	980 -C21
	980 -C24
	980 -C25
	980 -C27
VC5-7600-102	930 -CA302
VC5-8120-471	980 -C 2
VC6-0770-472	980 -C11
	980 -C12
VC6-1000-333	980 -C16
VC6-1680-104	935 -C101
	935 -C103
VC6-1690-104	935 -C101
	935 -C103
VC6-3760-336	980 -C 1
VC6-3760-476	980 -C10
VC6-5990-335	930 -C308
	930 -C313
VC9-1095-000	960 -C210
VC9-1346-000	930 -C322
VC9-1470-000	980 -C 3
	980 -C 4
	980 -C 5
	980 -C 6
	980 -C 7
	980 -C 8
VC9-1513-000	970 -C703
VC9-1589-000	930 -C307
VC9-5047-000	930 -C302
	930 -C304
	930 -C306
	930 -C321
	930 -C323
	930 -C341
	930 -C342
	960 -C207
	960 -C209
VR1-1141-103	980 -R 4
	980 -R28
	980 -R35
	980 -R44
	980 -R45
VR1-1141-104	980 -R 2
	980 -R36
	980 -R37
	980 -R38
VR1-1141-181	935 -R102
	935 -R105
VR1-1141-202	980 -R42
	980 -R46
VR1-1141-203	980 -R33
	980 -R34
	980 -R39
VR1-1141-220	980 -R15
VR1-1141-392	980 -R13
VR1-1141-470	980 -R 7
	980 -R40
VR1-1141-471	980 -R 9
	980 -R14
VR1-1141-472	980 -R32
	980 -R41
VR1-1141-479	980 -R 1
VR1-1141-514	980 -R19
	980 -R20
	980 -R21
	980 -R22
VR1-1141-515	980 -R 3
VR1-1141-752	980 -R43
VR1-1141-914	980 -R12
VR5-0780-689	450 - 16B
VR5-1260-151	935 -R101
	935 -R104
VR5-1930-102	930 -RA307
	930 -RA308
	930 -RA309
VR5-1930-103	930 -RA305
	930 -RA306
VR5-1980-221	930 -RA302
VR5-1980-332	930 -RA301
VR5-1980-751	930 -RA303
VR5-2301-001	930 -R394
VR5-2301-002	930 -R381
VR5-2301-003	930 -R350
VR5-2301-183	930 -R349
VR5-2301-272	930 -R384
VR5-2301-402	930 -R395
VR5-2302-212	930 -R351

PART NUMBER	FIGURE & KEY NO.
VR5-2303-571	930 -R382
VR5-2306-492	930 -R352
VR5-2511-004	980 -R10
	980 -R11
VR5-2512-052	980 -R29
VR5-2512-153	980 -R26
VR5-2512-612	980 -R30
VR5-2513-013	980 -R31
VR5-2513-324	980 -R23
	980 -R24
	980 -R25
VR5-2517-322	980 -R27
VR5-2519-763	980 -R47
VR5-2650-103	980 -R18
VR5-2650-334	980 -R17
VR5-3680-000	930 -JP301
	930 -R393
VR5-3680-101	930 -R358
	930 -R377
	960 -R204
VR5-3680-102	930 -R310
	930 -R359
	960 -R205
	960 -R208
	970 -R705
VR5-3680-103	930 -R301
	930 -R308
	930 -R312
	930 -R324
	930 -R333
	930 -R346
	930 -R347
	930 -R353
	930 -R355
	930 -R363
	930 -R364
	930 -R365
	930 -R366
	930 -R367
	930 -R368
	930 -R369
	930 -R370
	930 -R371
	930 -R372
	930 -R373
	930 -R374
	930 -R375
	930 -R376
	960 -R202
	960 -R209
VR5-3680-151	930 -R306
VR5-3680-201	930 -R325
VR5-3680-202	930 -R380
	960 -R210
VR5-3680-203	960 -R211
VR5-3680-220	930 -R337
	930 -R338
	930 -R339
	930 -R340
VR5-3680-222	930 -R313
	930 -R314
	930 -R315
	930 -R316
	930 -R317
	930 -R318
	930 -R319
VR5-3680-224	930 -R378
VR5-3680-272	930 -R330
	930 -R354
VR5-3680-274	930 -R309
VR5-3680-331	930 -R360
	970 -R706
VR5-3680-332	930 -R323
	930 -R336
	930 -R362
	970 -R707
VR5-3680-391	930 -R379
VR5-3680-393	930 -R357
	930 -R361
VR5-3680-472	930 -R307
	930 -R311
	930 -R331
	930 -R332
	930 -R334
	930 -R335
	930 -R383
	970 -R708
VR5-3680-474	930 -R348
VR5-3680-511	930 -R326
	930 -R327
	930 -R328
	930 -R329
VR5-3680-512	960 -R203

PART NUMBER	FIGURE & KEY NO.
VR5-3680-562	930 -R341
	930 -R342
	930 -R343
	930 -R344
	930 -R345
	930 -R356
VR5-3970-102	935 -R107
	935 -R108
VR5-4150-101	930 -R320
VR5-4150-102	960 -R207
VR5-4150-471	930 -R385
	930 -R386
	930 -R387
	930 -R388
	930 -R389
	930 -R390
	930 -R391
	930 -R392
VR5-4560-102	210 - 42A
	210 - 43A
VR5-4750-103	930 -RA304
	930 -RA310
	930 -RA311
	930 -RA312
	930 -RA313
VR5-6020-228	960 -R206
VR5-6371-004	970 -R701
VR5-6372-702	970 -R703
VR5-6375-491	970 -R702
VR5-6770-121	935 -R103
	935 -R106
VR5-6840-204	980 -VR1
VR5-6850-103	930 -VR301
	930 -VR302
	930 -VR304
	930 -VR305
	930 -VR306
VR5-6850-502	930 -VR303
VR5-6860-129	930 -R321
	930 -R322
VR5-6870-470	980 -R 8
VR7-1710-229	980 -R16
VR9-3552-000	960 -R201
VS1-0025-006	960 -J201
VS1-0025-008	930 -J301
VS1-0026-002	935 -J106
	935 -J107
	935 -J108
VS1-0026-003	935 -J105
VS1-0066-003	810 - 80A
VS1-0192-003	102 - 35A
VS1-0192-005	326 - 6
VS1-0437-002	930 -J305
VS1-0437-003	930 -J306
VS1-0437-004	930 -J309
	935 -J110
VS1-0437-006	930 -J351
VS1-0437-007	930 -J314
VS1-0437-009	930 -J304
VS1-0437-010	930 -J308
VS1-0437-011	930 -J310
VS1-0437-013	930 -J315
VS1-0440-003	102 - 35B
	326 - 7
	810 - 80B
VS3-0034-008	930 -CP301
VS3-0034-010	930 -CP302
VS4-0001-002	210 - 43B
	351 - 10B
VS4-0002-002	210 - 42B
VT2-0001-004	104 - 31
	935 - 4
VT2-0001-006	104 - 22
	104 - 32
VT2-0002-004	935 - 5
VT2-0002-006	104 - 23
WA1-0023-000	930 -DA301
	930 -DA305
WA1-0024-000	930 -DA302
	930 -DA306
WA1-0074-000	980 -ZD1
	980 -ZD2
WA1-0178-000	980 -D 7
	980 -D10
WA1-0209-000	980 -ZD3
WA1-0306-000	980 -D11
WA1-0396-000	980 -D 1
	980 -D 2
	980 -D 3
	980 -D 4
	980 -D 5
	980 -D 6
	980 -D 8

PART NUMBER	FIGURE & KEY NO.
WA1-0474-000	930 -D301
	930 -D335
	930 -D338
	960 -D201
WA1-0705-000	930 -DA303
WA1-0706-000	930 -DA304
WA1-0707-000	930 -DA307
	930 -DA308
	930 -DA309
	930 -DA310
	930 -DA311
WA1-0768-000	930 -D302
	930 -D303
	960 -D202
WA1-0887-000	930 -D304
	930 -D306
	930 -D307
	930 -D308
	930 -D309
	930 -D310
	930 -D311
	930 -D312
	930 -D313
	930 -D314
	930 -D315
	930 -D316
	930 -D317
	930 -D318
	930 -D319
	930 -D320
	930 -D321
	930 -D322
	930 -D323
	930 -D324
	930 -D325
	930 -D326
	930 -D327
	930 -D328
	930 -D329
	930 -D330
	930 -D331
	930 -D332
	930 -D333
	930 -D334
	930 -D336
	930 -D337
	960 -D203
	960 -D204
	960 -D207
	960 -D208
	970 -D701
WA1-0949-000	930 -ZD301
WA1-0999-000	930 -ZD304
WA1-1000-000	960 -DB201
	960 -DB202
WA1-1001-000	930 -ZD303
WA1-1027-000	930 -ZD302
WA1-1028-000	960 -DB203
WA1-1030-000	970 -ZD701
WA2-0124-000	930 -Q338
	960 -Q203
	960 -Q204
	980 -Q 6
WA2-0135-000	960 -Q202
	960 -Q205
	980 -Q 7
WA2-0307-000	930 -Q312
	930 -Q313
WA2-0772-000	930 -Q321
	930 -Q324
	930 -Q331
	930 -Q340
	930 -Q341
	930 -Q342
	930 -Q343
	930 -Q344
	930 -Q345
	930 -Q361
	930 -Q362
WA2-0775-000	930 -Q322
	930 -Q323
	930 -Q325
	930 -Q326
	930 -Q327
	930 -Q328
	930 -Q329
	930 -Q330
	930 -Q334
	930 -Q335
	930 -Q336
	930 -Q337
	930 -Q339
	930 -Q346

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PART NUMBER	FIGURE & KEY NO.	PART NUMBER	FIGURE & KEY NO.	PART NUMBER	FIGURE & KEY NO.	PART NUMBER	FIGURE & KEY NO.
WA2-0775-000	930 -Q347	WS4-0193-000	112 - 8				
	930 -Q348	WS4-0217-000	210 - 42C				
	930 -Q349	WS4-0219-000	351 - 10C				
	930 -Q350	WS4-0220-000	210 - 43C				
	930 -Q351	WT1-0026-000	326 - 9				
	930 -Q359	WT1-0143-000	110 - 12				
	930 -Q360		111 - 12				
WA2-0808-000	930 -Q333	WT1-0171-000	110 - 11				
WA2-0831-000	980 -Q 2		111 - 11				
WA2-0845-000	930 -Q352	WT1-0218-000	112 - 11				
WA2-0878-000	930 -Q353	WT1-0288-000	112 - 15				
	930 -Q354		112 - 16				
	930 -Q355	WT2-0030-000	102 - 37				
	930 -Q356		190 - 5				
	930 -Q357		220 - 16				
	930 -Q358		326 - 12				
WA2-0957-000	980 -Q 5		350 - 29				
WA2-0991-000	930 -Q314		351 - 7				
	930 -Q315	WT2-0178-000	112 - 14				
	930 -Q316	WT2-0179-000	935 - 7				
	930 -Q317	WT2-0248-000	220 - 15				
WA2-1320-000	930 -Q332	WT2-0295-000	101 - 21				
WA2-1348-000	930 -Q318	WT2-0296-000	400 - 28				
	930 -Q319	WT2-0317-000	110 - 4				
	930 -Q320		111 - 4				
WA3-0822-000	930 -Q303		112 - 4				
WA3-1116-000	930 -Q308		250 - 14				
	930 -Q309	WT2-0435-000	210 - 42E				
WA3-1632-000	930 -Q302		210 - 43E				
WA3-5005-000	930 -Q307		351 - 11				
WA4-0225-000	980 -Q 3	WT3-9034-000	112 - 19				
WA4-0233-000	930 -Q305	WT3-9041-000	112 - 17				
	960 -Q207	WT3-9048-000	112 - 18				
WA4-0367-000	930 -Q306	X07-4014-090	103 - 27				
	970 -Q701	X31-6240-880	210 - 32				
WA4-0516-000	930 -Q304		400 - 25				
WA4-0572-000	930 -Q310	X31-6241-080	401 - 11				
WA4-0587-000	930 -Q311	X62-5370-000	326 - 8				
WA4-0881-000	960 -Q201	X65-5032-000	935 -D101				
WA4-0887-000	960 -Q206		935 -D102				
WA5-0093-000	935 -Q102		980 -D 9				
WA5-0094-000	935 -Q102		980 -D12				
WA5-0095-000	935 -Q101		980 -D13				
WA5-0096-000	935 -Q101	X66-6662-000	210 - 42D				
WA8-0166-000	980 -C 9		210 - 43D				
WA9-0142-000	960 - 4	X66-6670-000	111 - 13				
WA9-0277-000	935 - 9	XA1-7300-604	640 - 23				
WC2-0105-000	101 - 9	XA9-0134-000	102 - 21				
WC2-0141-000	930 -SW301		350 - 27				
WC4-0081-000	326 - 11	XA9-0135-000	102 - 38				
WC8-0034-000	104 - 17		550 - 10				
WD1-0119-000	960 -FU201	XA9-0159-000	560 - 13				
	960 -FU202	XA9-0192-000	350 - 26				
WD1-0253-000	960 -FU203	XA9-0233-000	935 - 8				
WD1-0255-000	960 -FU201	XA9-0265-000	100 - 22				
	960 -FU202	XB1-1301-203	980 - 9				
WD1-0256-000	960 -FU203	XB1-2231-009	326 - 13				
WD1-0257-000	960 -FU201	XB1-2401-509	101 - 22				
	960 -FU202	XB1-2600-609	110 - 15				
WD1-0258-000	960 -FU203		111 - 17				
WD3-0104-000	110 - 5		112 - 21				
	111 - 5	XB4-7400-609	325 - 8				
WD3-0125-000	112 - 5	XB4-7401-009	300 - 19				
WD9-0031-000	960 -FU201		325 - 9				
	960 -FU202	XB7-1040-049	105 - 10				
	960 -FU203	XD1-1106-725	104 - 34				
WG3-0055-000	970 -Q702	XD1-1108-231	810 - 84				
WG8-0147-000	935 -Q103	XD1-1109-721	640 - 41				
	935 -Q104	XD1-2100-305	326 - 19				
WK2-0290-000	930 -X301	XD2-1200-242	640 - 40				
WP1-0019-000	101 - 17	XD2-2300-402	640 - 22				
WS1-0154-000	930 -J311	XF9-0210-000	250 - 11				
WS3-0421-000	930 -J313	XG9-0089-000	400 - 24				
	930 -J350		401 - 10				
WS3-0422-000	104 - 18	XG9-0172-000	810 - 70				
WS3-0423-000	930 -J302	XG9-0177-000	640 - 21				
WS3-0424-000	930 -J307	XZ9-0251-000	101 - 16				
WS3-0425-000	930 -J352		105 - 7				
WS3-0427-000	930 -J312	XZ9-0287-000	325 - 6				
WS3-0580-000	930 -J303						
WS3-0586-000	970 -J701						
WS3-0613-000	450 - 16C						
WS4-0059-000	110 - 10						
	111 - 10						
	112 - 10						
WS4-0073-000	110 - 7						
	111 - 7						
	112 - 7						
WS4-0075-000	110 - 9						
	111 - 9						
	112 - 9						
WS4-0193-000	110 - 8						
	111 - 8						

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